MAY, 1931 NUMBER 272

THE UNIVERSITY OF NORTH CAROLINA RECORD

ANNOUNCEMENT OF THE

SUMMER SCHOOL

1931

First Term: June 11-July 21

Second Term: July 22-August 28

THE UNIVERSITY OF NORTH CAROLINA PRESS
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CHAPEL HILL, N. C.

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CALENDAR

First Term

Registration Hours—9:00-1:00 and 2:30-5:00 except Saturdays. On Saturdays 9:00-1:00 only.

June 11, *Thursday*—Registration Day. (Extra fee of $2.50 for late registration after today.)

June 12, *Friday*—Instruction begins in all departments at 8:00. (Those registering today—or tomorrow—will be required to pay an extra fee of $2.50 for late registration.)

June 13, *Saturday*—Regular classes in all departments.

June 15, *Monday*—Those registering today will be required to pay an extra fee of $5.00 for late registration.

June 15, *Monday*—Registration for credit will not be permitted after 5:00 o'clock today, except by action of the Administrative Board.

July 4, *Saturday*—Holiday.

July 18, *Saturday*—Doctoral dissertations may not be submitted after this date.

July 20-21, *Monday and Tuesday*—Examinations.

Second Term

Registration Hours—9:00-1:00 and 2:30-5:00 except Saturdays. On Saturdays 9:00-1:00 only.

July 22, *Wednesday*—Registration of new students. (Extra fee of $2.50 for late registration after today.)

July 23, *Thursday*—Instruction begins in all departments at 8:00. (Those registering today—or tomorrow—will be required to pay an extra fee of $2.50 for late registration.)

July 25, *Saturday*—Regular classes in all departments. (Those registering today—or Monday—will be required to pay an extra fee of $5.00 for late registration.)

July 27, *Monday*—Registration for credit will not be permitted after 5:00 o'clock today, except by action of the Administrative Board.

August 1, *Saturday*—Written examinations for the doctor's degree may not be taken after this date.
Master's theses may not be submitted after this date.

August 8, *Saturday*—Written examinations for the master's degree may not be taken after this date.

August 26, *Wednesday*—Class instruction ends at 6:00 p.m.

August 27-28, *Thursday and Friday*—Final examinations.

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

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IMPORTANT SUGGESTIONS

1. Have your room reserved in advance. (See p. 23, for information about dormitories.
2. Urge your room-mate to make reservation promptly; otherwise the management will have to assign some one to the room with you.
3. Before leaving home mark your trunk plainly, putting your own name on it and the name of the dormitory to which you have been assigned, and have it checked to Chapel Hill, N. C. If you make your reservation for the first term before June 1, or for the second term before July 15, a printed card giving your Chapel Hill address (room number and name of dormitory) and a baggage check will be sent to you. This card attached to your trunk or baggage will insure its prompt delivery, provided you DELIVER THE CHECK TO THE UNIVERSITY SUMMER SCHOOL OFFICIAL REPRESENTATIVE AT UNIVERSITY STATION.
4. Be sure to provide yourself with the necessary articles which you are expected to bring; bed linen, pillows, towels, etc. (See p. 26.)
5. If convenient for you to do so, confer with your superintendent or principal and get his advice as to the courses you should pursue in the Summer School.
6. Do not plan too much. Fifteen hours of class work a week is a reasonable amount to attempt. An extra charge of $5.00 is made for each course beyond this amount except in the case of students registered in the Division of Elementary Education for certification credit only.
7. Decide before coming that you will stay the full term. No credit will be given for a shorter period than a term. Those who possibly can remain for both terms will find it greatly to their advantage to do so, since double credit may be earned toward meeting the requirements for the University's degrees or for State certification.
8. Be present for the first roll-call. The person who begins his work a day or two late is obliged to labor under a handicap. Work will start promptly as scheduled, and the pace will be brisk. Note also that an extra fee of $2.50 is charged for late registration. (See p. 29.)
9. Registration for credit for the first term will not be allowed after Monday, June 15, nor for the second term after Monday, July 27.
10. Please note that certain courses will not be given unless applied for in advance.
11. Be sure to instruct your correspondents to put the name of the dormitory in which you room and your room number on any mail sent to you while in Chapel Hill. If this is done, it will insure prompt delivery; otherwise delivery will be delayed several hours.
12. If, after examining this bulletin carefully, there is further information you desire, address N. W. Walker, Director of the Summer School, Chapel Hill, N. C.

OFFICERS OF ADMINISTRATION

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Walter Dallam Toy, M.A., *Secretary of the Faculty.*
Thomas James Wilson, Jr., Ph.D., *Dean of Admissions and Registrar.*
Charles Thomas Woollen, *Business Manager.*
Louis Round Wilson, Ph.D., *Librarian.*
Francis Foster Bradshaw, Ph.D., *Dean of Students.*
Mrs. Marvin Hendrix Stacy, *Adviser to Women.*
Robert Allison Fetzer, B.S., M.A., *Director of Athletics.*
George Kenneth Grant Henry, Ph.D., *Assistant Registrar.*
Julius Algernon Warren, *Treasurer and Bursar.*
Livingston Bertram Rogerson, *Auditor.*
Donald Coney, A.M. in L.S., *Assistant Librarian.*
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Robert Baker Lawson, M.D., *Director of the Gymnasium.*
Eric Alonzo Abernethy, B.S., M.D., *University Physician.*
Harry Fulcher Comer, B.S., *General Secretary Y. M. C. A.*

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James Munsie Bell, Ph.D., *Dean of the School of Applied Science.*
Nathan Wilson Walker, A.B., Ed.M., *Acting-Dean of the School of Education.*
Dudley Dewitt Carroll, M.A., *Dean of the School of Commerce.*
*Charles Tilford McCormick, B.A., LL.B., *Dean of the School of Law.*
†Isaac Hall Manning, M.D., *Dean of the School of Medicine.*
†John Grover Beard, Ph.G., Ph.M., *Dean of the School of Pharmacy.*
Herman Glenn Baity, ScD., *Acting-Dean of the School of Engineering.*
Howard Washington Odum, Ph.D., *Director of the School of Public welfare.*

* The summer session of the School of Law is operated independently of the Summer School. Any one desiring information about the School of Law should communicate directly with Dean McCormick.
† The Schools of Medicine and Pharmacy are not in operation in the summer.

SUMMER SCHOOL OFFICIALS

FRANK PORTER GRAHAM, M.A., LL.D., *President of the University.*
NATHAN WILSON WALKER, A.B., Ed.M., *Director of the Summer School.*
ISAAC CEBERN GRIFFIN, *Executive Secretary of the Summer School.*
MRS. A. C. PICKARD, *Secretary to the Director.*
MISS LILLIAN LONG, *Assistant Secretary in Charge of Rooms.*

The Administrative Board

NATHAN WILSON WALKER, A.B., Ed.M., *Acting-Dean of the School of Education and Director of the Summer School.*
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DUDLEY DEWITT CARROLL, A.M., *Dean of the School of Commerce.*
JAMES MUNSIE BELL, Ph.D., *Dean of the School of Applied Science.*
HAROLD DIEDRICH MEYER, *Professor of Sociology and Supervisor of Field Work.*
THOMAS JAMES WILSON, JR., Ph.D., *Dean of Admissions and Registrar.*
CHARLES THOMAS WOOLLEN, *Business Manager of the University.*
ROBERT BURTON HOUSE, A.M., *Executive Secretary of the University.*
HAROLD SHELDON DYER, M.Mus., *Professor of Music.*

Other Officials

The Library: LOUIS ROUND WILSON, Ph.D., Librarian; DONALD CONEY, A.M. in L.S., Assistant Librarian; Miss NORA BEUST, A.M., in charge of the School of Education Library.
The Infirmary: ERIC ALONZO ABERNETHY, S.B., M.D., Physician; EDNA GRAY WOMACK, R.N., Head Nurse; MISS ELIZA JONES, R.N., Assistant Nurse.
The Gymnasium: ROBERT BAKER LAWSON, M.D., Director.
Y. M.-W. Christian Association: HARRY FULCHER COMER, B.S., General Secretary.
Teachers' Bureau: ISAAC CEBERN GRIFFIN, Secretary.
Social Activities: HARRY FULCHER COMER, B.S., Chairman of the Committee on Social Activities.
Buildings and Grounds: A. A. PICKARD, Superintendent of Grounds; P. L. BURCH, Superintendent of Buildings.

Hostesses in Charge of Dormitories

Old East	Mrs. Harvey Boney Mrs. J. S. Hunter
Old West	Miss Lucille Hunt Mrs. Nerah G. Penney
Carr	Mrs. R. S. Sledge
Steele	Mrs. Annie Baldwin Mrs. Katherine W. Harrison
Grimes	Mrs. E. F. McKinney Mrs. Susie A. Bardin
Ruffin	Miss Hester Struthers Miss Lura deBerry
Manly	Miss Annie Perkins Miss Edna Robinson
Mangum	Mrs. June Gunter Mrs. Ben Wall
Aycock	Mrs. Chas G. Gulley Mrs. Minnie C. Flack
Lewis	Mrs. Josie Brock Mrs. J. M. Roberts

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Members of University's Regular Staff

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RAYMOND WILLIAM ADAMS, Ph.D. — ENGLISH
Assistant Professor of English — First Term

GLADYS ANGEL, M.S. — ELEMENTARY EDUCATION
Assistant Professor of Health and Physical Education in Extension Teaching — Both Terms

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Instructor in English — Both Terms

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Kenan Professor of Rural Social Economics — Both Terms

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Teaching Fellow in Botany — Both Terms

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Research Associate in Institute of Research and Social Sciences — Both Terms

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LOUIS BOOKER WRIGHT, Ph.D. — ENGLISH
Assistant Professor of English — First Term

ERICH WALTER ZIMMERMAN, Ph.D. — ECONOMICS
Professor of Commerce and Resources — First Term

Visiting Instructors

SUSAN GREY AKERS, A.B., Cert. in L.S. — LIBRARY SCIENCE
Associate Professor-elect, School of Library Science — Second Term

NATHANIEL CHARLES BURHANS, M.S. — GEOLOGY
Instructor, Ohio State University — Both Terms

GEORGE PHINEAS BUTLER, M.A., LL.D. — EDUCATION
Former President Augusta (Georgia) Junior College — First Term
Adviser to Junior Colleges for the Association of Colleges and Secondary Schools of the Southern States

EZDA DEVINEY, M.A. — ZOÖLOGY
Assistant Professor of Zoölogy in the Florida State College for Women, Tallahassee, Florida — First Term

WILLIAM EARLE DRAKE, Ph.D.—EDUCATION
Associate Professor of Education, Penn State College, Extension Division, Pittsburgh, Pennsylvania — Both Terms

MARY ECHFORD, M.A.—ELEMENTARY EDUCATION
Teacher in Tower Hill School, Wilmington, Delaware — Both Terms

SARAH M. FINDLEY, B.L.S.—LIBRARY SCIENCE
Librarian, Lakewood High School, Lakewood, Ohio — First Term

FLOSSIE MARIE FOSTER, A.B.—LIBRARY SCIENCE
Formerly Librarian, High Point High School, High Point, N. C.

ELMER H. GARINGER, A.M.—EDUCATION
Principal, Central High School, Charlotte, N. C. — Both Terms

JOHANNE GJERULFF, M.S.—MUSIC
Teacher in American Institute of Dalcroze Eurythmics, New York City — First Term

ELMER HALL—ENGLISH
Former Instructor in English — First Term

MARY HUFHAM, M.A.—ELEMENTARY EDUCATION
Head, Department of English, The Bennett School, Milbrook, N. Y. — Both Terms

MALOY ALTON HUGGINS, M.A.—EDUCATION
Professor of Education, Meredith College, Raleigh, N. C. — Both Terms

LILY NELSON JONES—ELEMENTARY EDUCATION
Supervisor of Writing, Durham City Schools, Durham, N. C. — First Term

ALBERT S. KEISTER, Ph.D.—ECONOMICS
Professor of Economics, North Carolina College for Women, Greensboro, N. C. — Second Term

IVA KREBS, M.A.—ELEMENTARY EDUCATION
Principal Elementary School, Milwaukee, Wis. — First Term

NAN LACY, M.A.—ELEMENTARY EDUCATION
Supervisor, Public Schools, Lexington, Ky. — First Term

HERBERT C. LIPSCOMB, Ph.D.—LATIN
Professor of Latin, Randolph-Macon Woman's College, Lynchburg, Va. — Second Term

ALICE LITTLE, M.A.—ELEMENTARY EDUCATION
Department of Fine Arts, University of Cincinnati — Both Terms

CHESTER ORA MATHEWS, Ph.D.—EDUCATION
Associate Professor of Education, Ohio Wesleyan University, Delaware, Ohio — Second Term

BALDWIN MAXWELL, Ph.D.—ENGLISH
Professor of English, University of Iowa, Iowa City, Iowa — Both Terms

MORRIS RANDOLPH MITCHELL, Ph.D.—EDUCATION
Principal, Park School, Buffalo, New York — Both Terms

CAROBEL MURPHEY, Ph.D.—EDUCATION
Vice-Principal, Thomas A. Edison High School, Los Angeles, California — Both Terms

GRACE HELEN NASH, A.B., Mus.B.—MUSIC
Professor in Music, Education, Southern California University, Los Angeles, California — First Term

HELEN NICHOLS, M.A.—ELEMENTARY EDUCATION
Head of Science Department, Highland Park, N. J. — First Term

R. J. SLAY, Ph.D.—ELEMENTARY EDUCATION
Director of Instruction, Science, East Carolina Teachers College — Second Term

MRS. ELIZABETH GRAY VINING, A.B., B.L.S.—LIBRARY SCIENCE — Second Term

FREDERICK CARLYLE SHEPARD, M.A.—EDUCATION
Professor of Education, Guilford College, Guilford College, N. C. — First Term

LILLIAN STEVENS, M.A.—ELEMENTARY EDUCATION
Teacher, Lincoln School, Teachers College, Columbia University, New York City — Both Terms

JOHN L. WILSBACH, M.A.—MUSIC
Supervisor of Music, Public Schools, Holyoke, Mass. — Both Terms

PART I—GENERAL INFORMATION

The Summer Session: June 11-August 28

The 1931 session of the University Summer School will open on Thursday, June 11, and continue for twelve weeks, closing on Friday, August 28. The session will be divided into two terms of six weeks each. The first term will begin on Thursday, June 11, and close on Tuesday, July 21. The second term will begin on Wednesday, July 22, and close on Friday, August 28.

Registration

The regular time for registration for the first term will be Thursday, June 11. All students of the Summer School should try to be present and register on that day, as the regular class work will begin promptly at 8:00 on Friday morning, June 12. Moreover, there is an extra fee for delayed registration. For those registering June 12 or 13, the extra fee is $2.50. For those registering June 15, the extra fee is $5.00. Registration for credit will not be permitted in the first term after 5:00 o'clock Monday, June 15, nor in the second term after 5:00 o'clock Monday, July 27, except by action of the Administrative Board.

Those Who May Be Admitted

Registration in the Summer School will be limited to those applicants who can qualify for admission under one of the following provisions.

1. Those who can satisfy the University's requirements for admission as given in the annual catalogue. The entrance requirements for admission to the University are fifteen units secured by graduation from a standard four-year secondary school. In order to be accepted as a candidate for a degree the student must meet the specific requirements laid down by the school or college in which the degree is conferred.

2. *Teachers holding regular State certificates.*

3. *Applicants for State certificates who have graduated from schools accredited by the State Department of Education.*

4. *Special students who are neither candidates for degrees nor applicants for State teachers' certificates* may be admitted under the University's general regulations covering such cases. They must be twenty-one years of age or over.

For Whom Courses Are Planned

Professional and cultural courses are planned for:

1. Teachers of Primary Grades.
2. Teachers of Grammar Grades.
3. High School Teachers and Principals.
4. Teachers of Special Subjects.
5. County and City Superintendents and Supervisors.
6. College and University students who desire to earn extra credit toward their degrees.
7. Graduate students, teachers and others wishing to pursue professional and cultural courses leading to advanced degrees.
8. Librarians.

Divisions of the Summer School

The Summer School is organized into three general divisions, as follows:

The College Division
The Graduate Division
The Division of Elementary Education

In the College Division falls all the undergraduate work offered in the following schools:

The College of Liberal Arts
The School of Education
The School of Commerce
The School of Applied Science
The School of Public Welfare
The School of Engineering

In the Graduate Divison, or the Graduate School, fall all the courses carrying strictly graduate credit as well as courses for advanced undergraduates when such courses are elected by graduate students for credit toward the higher degrees, by whatever department or in whatever school they are given.

In the Division of Elementary Education fall the courses designed especially for elementary teachers in accordance with both the regulations of the State Department of Education and the curriculum requirements for those seeking degrees in elementary education.

The courses offered in the College and Graduate Division (See Part II) are given by the regular departments of the University and carry credit toward the several degrees under the same regulations as in the regular college year.

The Division of Elementary Education (See Part III) is operated as one of the divisions of the School of Education. The undergraduate courses offered in this Division are designed to meet the needs of teachers of the Primary and Grammar Grades of the public schools.

Summer School Credits

In order to understand the credit allowances for work accomplished in the Summer School, and the total amount of credit that may be earned in one term or both; it is necessary to bear in mind the specific ends for which credit is sought or may be granted. It is further necessary to keep clearly in mind the University's technical meaning of the word *course* as distinguished from the popular meaning of the word, as for example, "summer school *course,*" meaning simply any subject pursued for six weeks. It is important, therefore, that the following definitions and distinctions concerning credits in the College and Graduate Divisions be borne in mind.

The University expresses its degree requirements, and consequently its credits toward graduation, in terms of *courses* and not in terms of *semester hours* as is the more common practice among colleges and state departments of education. The regular college year is divided into three quarters and not two semesters as is the case in most institutions. The two terms of the Summer School together constitute a fourth or extra quarter. A course pursued through a quarter, classes meeting five or six times a week, carries a credit of one *course.* Thirty-six *courses* are required for graduation with the degree of A.B. or A.B. in Education. These thirty-six courses are equal to 121⅓ or more semester hours. The University's course, therefore, is equal to 3⅓ or 4 semester hours. The Summer School course meeting five or six times a week for six weeks carries a credit of ½ *course,* or a credit of 1⅔ or 2 *semester hours.** A Summer School course meeting ten or more times a week for six weeks carries a credit of one *course* or, from 3⅓ or 4 semester hours. A Summer School course meeting five times a week through both terms carries a credit of one *course.*

Three *courses* constitute the students' normal load of work for the regular quarter and for the two terms of the Summer School. (Students in the graduate division are limited strictly to this amount of credit per quarter.) The undergraduate student may, if the Dean of the School in which he is registered approves, carry four courses and earn credit for four *courses.* Three half-courses (or one and one-half *courses*) constitute the student's usual load of work for one term of the Summer School. A student may, however, if his Dean

* Those interested in certification credit will note that the North Carolina State Department of Education allows certification credit of two semester hours for each *half-course,* as here defined, and four semester hours for each *course* completed in an accredited Summer School.

approves, carry four half-courses (that is, four summer school courses) in one term. The total amount of credit that may be earned in one term of the Summer School is from 5 to 8 semester hours.

Standard of Work

The standard of work in courses given for University credit will be in all respects that of the corresponding courses as given during the regular session, as these courses are an integral part of the work of the University. It is the hope of the University that, by giving such courses, increased service may be rendered to the growing body of teachers in the State who have already completed college courses or done some work of college grade and who now desire while in service to improve themselves along both professional and cultural lines.

Courses of Freshman and Sophomore grade will not be credited as graduate work. Courses of Junior and Senior grade if marked C. or G. in the statement of courses below (See Part II of this announcement), may be given such credit as indicated in the regulations below. Definite information about the different credits that certain courses carry can be obtained at the time of registration.

Term Reports and Grades

After the close of each term reports of the standing of all students in all their studies are sent to the student. The reports are based upon the following system of marking:

Grade A, Excellent
Grade B, Good
Grade C, Fair
Grade D, Barely passed
Grade F, Failed
Grade I, Work incomplete

A student must attain a grade of D to pass in any study. Students receiving grade F must repeat the study to receive any credit for the same.

Grades for each graduate course completed are reported to the Dean and to the Registrar. These grades are as follows:

"High," which represents work of distinction.

"Passed," which represents satisfactory work.

"Failed," which represents work that is unsatisfactory for graduate credit.

No work falling below the standard represented by the grade of "Passed" is counted for graduate credit. If, in the judgment of the Administrative Board, the quality of the work done by any student falls below the standard expected of graduate students, the registration of such a student will be cancelled.

Degrees: When Conferred

Degrees are conferred at the annual commencement in June and at the close of the second term of the Summer School. Degrees conferred at the close of the Summer School are awarded without academic ceremony.

Admission to Undergraduate Courses

Applicants for admission to courses of Freshman grade must satisfy the requirements for entrance as laid down in the University catalogue. These requirements comprise a total of 15 units selected from the subjects of English, foreign languages (ancient and modern), history, mathematics and science, and vocational subjects. For details the applicant is referred to the University catalogue.

Applicants for courses of advanced grade must furnish evidence of work of college grade completed at this or another institution. Such evidence must consist of the official statement from the institution where the work was done, showing definitely the courses pursued and the amount of credit recorded. Admission to specific courses will be determined in each case by the department on the basis of previous preparation.

Application for admission to undergraduate courses should be sent in advance to the Director of the Summer School. This application should be accompanied by certificates of preparation, or official statements from other institutions that the applicant has attended, and a list of the courses the applicant desires to pursue. Blanks for this purpose will be furnished on request.

The Graduate School

The Summer School offers excellent opportunities for carrying on advanced work in many fields of learning. Graduates of standard colleges are admitted to the Graduate School during the summer term on precisely the same basis as in the regular sessions. Such students may become candidates for advanced degrees or may register as special students in such courses as they desire.

Students who wish to pursue in the Summer School courses leading to the Master's degree should bring with them when they register a transcript of their college credits. In case the student has not had sufficient training to enable him to pursue strictly graduate courses, provision may be made in the Summer School for the making up of such deficiency.

No student may receive credit during any one summer quarter for more than three courses in the Graduate School.

1. *Admission.* Holders of degrees from standard colleges are admitted without examination upon presentation of their credentials.

It will save time at registration if these credentials are submitted in advance of the opening of the Summer School.

Admission to the Graduate School is not the same as admission to candidacy for a higher degree. For admission to candidacy for a degree a student must have been in residence in the Graduate School for one quarter or two summer terms. Action on each case is postponed until the student has progressed sufficiently to make possible the planning of his course. This does not imply any increase in the length of time necessary for the attainment of the degree. It means simply that the individual record of each student, undergraduate as well as graduate, is taken into account in determining what must be done in order to secure the degree.

2. *Regulations as to Courses.* While graduate students may register for any of the courses offered by the Summer School Faculty, no courses will count for credit towards an advanced degree unless they are classified as graduate courses in this bulletin or in the Catalogue of the Graduate School. These courses must be selected in accordance with the rules for major and minor subjects set forth in the catalogue of the Graduate School. In general, this means that two-thirds of a candidate's work during his entire period of residence (three summers being the usual time required) must be from one department, the remaining one-third being from a closely allied minor department.

3. *Requirements for the Master's degree.* For a detailed statement of the requirements for the degrees of Master of Arts and Master of Science, the student is referred to the catalogue of the Graduate School. These rules are the same in their application to Summer School students as in the case of students registered for the regular sessions. Teachers of experience whose credentials and work are satisfactory to the Administrative Board may complete the requirements for the master's degree in two and one-half summer quarters. Students may continue their studies during the year under the direction of the special committee in charge of their work, and may do part of the work required for their theses in this manner. In certain approved cases, also, credit not to exceed two full courses may be transferred for work done in another university. Every such case is treated individually and must be approved by the Administrative Board, on recommendation of the department of major study, at the time application is made for admission to candidacy for a higher degree. Students who are not admitted under these special conditions will find three full summer quarters necessary for the completion of the requirements for the Master's degree.

Work taken more than five years before the date at which the master's degree is expected may not be used to count for credit toward that degree.

A reading knowledge of at least one modern foreign language is required of candidates for the master's degree. This knowledge will

be tested by a special examination given by the language department, and must be certified to before the student is admitted to candidacy for the degree.

The thesis must be written in accordance with provisions stated in the Graduate Catalogue. It may count not to exceed one and one-half courses. This thesis may be handed in, and the final oral and written examinations may be taken, at any time during the year. (See scheduled dates on the calendar.) The Master's degree is conferred at commencement in June and at the end of the second term of the Summer School.

4. *Requirements for the Doctor's Degree.* Prospective candidates for the degree of Doctor of Philosophy are referred to the Catalogue of the Graduate School for a detailed statement of the requirements for this degree. For purposes of convenience a summary of these requirements is presented here:

1. Admission is the same as for the master's degree.
2. A minimum of three years of graduate study, at least one of which must be at the University of North Carolina.
3. A reading knowledge of French and German.
4. A major covering adequately the field of major interest and at least six courses in a minor, which may or may not be in a different department.
5. A preliminary oral examination.
6. A written examination in the field of major interest.
7. An oral examination covering the entire field of study.
8. A dissertation.

5. *Further Information.* All students who propose to do work leading to an advanced degree should read carefully the catalogue issue of the Graduate Catalogue, which will be sent on application to the Dean of the Graduate School.

Summer School Certificates and Professional Credits

At the close of each term regular examinations will be held, and certificates will be issued to those who pass satisfactory examinations on the courses pursued. These certificates state definitely the courses pursued and the grades attained.

Records of all students desiring professional credit with the State Department of Education will be sent to the Director of Certification immediately after the close of each term of the Summer School, provided record cards, furnished for this purpose by the State Department of Education, have been carefully filled out by such students and turned in to the office of the registrar.

Teachers' Bureau

A Teachers' Bureau is maintained during the summer session for the benefit of teachers desiring a change in position. Many applications for teachers are received each year while the Summer

School is in session, and many superintendents visit the Summer School for the purpose of employing well qualified teachers. In order that the management may keep closely in touch with available teachers and be enabled thereby to render prompt service to school officials applying for teachers, all well qualified applicants in attendance are invited to register with the Teachers' Bureau. A nominal fee is charged to cover a part of the cost of necessary incidentals. Each registrant will have the services of the Teachers' Bureau for one year beginning with the date of registration. Applicants are expected to file with the Bureau photograph and typewritten testimonials or letters of recommendation.

The Library

The University Library has occupied its new building since July, 1929. It now contains over 224,000 volumes and 3,230 periodicals are regularly received. The new building houses, aside from the general collection and reading rooms, the Rural Social Economics Library, the Education and Commerce Reading Rooms. A special room is devoted to North Carolina history. A separate room is provided for the use of students doing collateral reading in material reserved for their convenience by University instructors. One hundred study carrels are provided with the bookstacks for graduate students and faculty, to which assignment is made on application.

The Gymnasium

During the Summer School the Gymnasium will be used for the classes in physical education and for social activities conducted under the auspices of the Y. W.-M. C. A.

The Infirmary

During the Summer School the University Infirmary will be open for the convenience of the students in attendance. The Infirmary will be under the direction of Dr. Eric A. Abernethy, Physician to the Summer School, and a Registered Nurse, who with an assistant, will be constantly in attendance. There will be no extra charge for the services of the Physician or of the Nurse, except in cases of prolonged and serious illness necessitating a special nurse. The Summer School Physician will be at the Infirmary two periods a day for consultation and advice. At these hours students of the Summer School will be given the opportunity to consult the Physician about any matters pertaining to their health.

Registration and Tuition Fees

Each matriculate in the Summer School is required to pay a flat registration fee of $15.00 for each term.

In addition to the registration fee, a tuition fee of $12.50* for each term will be charged all matriculates who are not teachers in the schools of North Carolina. (For conditions under which free tuition is granted to teachers, see below under "Free Tuition for Teachers.") The payment of the $12.50* tuition fee will permit students (except those in the School of Engineering) to register for three summer school courses, or fifteen hours work per week. If a fourth course is desired, an additional fee of $5.00 will be required. For a detailed statement of the various fees charged and the purposes for which they are charged see below under "Summary of Fees and Expenses."

Train Schedules

There are two trains a day, except Sunday, from University Station to Chapel Hill. The noon train arrives at 11:05 and the afternoon train at 2:45. Those who can conveniently do so would do well to arrange their trip so as to reach Chapel Hill on the noon train. Be sure to buy your ticket to Chapel Hill Station and have your baggage checked to this point (and not to the University station, which is ten miles or more from the University).

Delivery of Baggage

The Summer School management will deliver the baggage of students at their dormitories, provided their checks are given only to the official representative of the Summer School at University Station or at Chapel Hill Station. During the registration periods a Bureau of Information will be maintained at University Station, and an official representative of the Summer School will be on hand to take up baggage checks and give such information as incoming students may desire. Give your checks to this representative and your baggage will be delivered promptly and without charge if you occupy a room in one of the University dormitories. A charge will be made for trunks delivered off the campus.

Table Board

Good table board will be furnished at *Swain Hall* for $35.00 a term, payable at the beginning of the term. Seven hundred boarders can be accommodated at *Swain Hall.*

Dormitory Accommodations

For the accommodation of ladies in attendance upon the Summer School the following buildings will be open: *Spencer, Steele, Old East, Old West, Grimes, Manly, Mangum, Ruffin, Aycock, Graham,*

* For students who are not residents of North Carolina, the tuition fee for three courses, fifteen hours a week, is $25.00 for one term, or $40.00 for both terms.

Everett, and *Lewis Dormitories.* Reservation of rooms may be made at any time.

For the accommodation of men in attendance upon the Summer School the following dormitories will be open: *Battle, Vance, Pettigrew Dormitories,* and the *Graduate Club House* (Mary Ann Smith Building).

Carr Building will be held for married couples. It contains 32 rooms and will accommodate 70 students.

Room rent in any of these buildings (except Spencer and Mary Ann Smith) is $7.50 per student for the term of six weeks, *payable in advance.*

Spencer Building (Women's Building)

The Cornelia Phillips Spencer Building will be open this summer to the Summer School. It contains a large social room, dining room, twenty-six double and eight single bedrooms. Running water is furnished in all rooms, and bath rooms are convenient. The arrangement is that of a large comfortable home. The rates are as follows: single room per month $20.00, double room per month $25.00 ($12.50 each) and board per week is $7.00. All persons living in the Woman's Building are required to have meals in the dining room there. A deposit fee of $7.50 must be paid at time reservation is made, balance to be paid to Mrs. Stacy at the time of registration. Please make check payable to the University of North Carolina, and send to Mrs. M. H. Stacy.

Steele Building (For Women Graduate Students)

During the Summer School Steele Building is reserved for women graduate students. This building has 36 rooms and will accommodate 70 students, two to the room. The rental is $7.50 per occupant for the term of six weeks.

Old East Building contains 39 rooms and will accommodate 75 students.

Old West Building contains 39 rooms and will accommodate 75 students.

Grimes, Manly, Mangum, and *Ruffin Dormitories* contain 45 rooms each, and will accommodate 90 students each.

Aycock, Graham, Everett and *Lewis Dormitories* contain 56 rooms each, and will accommodate 112 students each.

Battle, Pettigrew, and *Vance Dormitories* contain 72 rooms en suite and will accommodate 144 students, 4 students to the suite.

During the summer session each of the dormitories for women will be in charge of a capable hostess who will see that the University's regulations regarding the health, comfort, and safety of the students are carried out, and who will be always ready to give the young ladies such advice and assistance as they may need.

There are shower baths in all dormitories.

Because of the crowded conditions in the dormitories during the summer session, it has been found necessary for the summer school officials to rule that no children can be allowed to occupy rooms on the campus with their parents or friends. It will be necessary, therefore, for married couples or others who expect to bring children with them to secure accommodations off the campus.

Only students who are regularly registered in the Summer School will be allowed to occupy rooms in the University dormitories.

Graduate Club House

Mary Ann Smith Building which was formerly a dormitory has been converted into a club house for male graduate students. Rental in this building (2 persons to a room) is $15.00 per man for the term of six weeks. A deposit fee of $7.50 should be made in order to secure reservations, and the remainder of the rent ($7.50) will be payable at the beginning of occupancy. Occupants of the building are required to take meals in the Club Dining Room, where the rate is $30.00 per month. Applications for reservations in Smith Building should be made to the Secretary of the Graduate Club, Chapel Hill, N. C.

Regulations Concerning Women Students

All women students of the Summer School under 24 years of age, except residents of the Chapel Hill community who live at home, are required to live in the University dormitories.

Wherever women students of the Summer School reside they are under the supervision of the Adviser to Women and the hostesses, and are expected to conform to the general regulations prescribed for women students.

Reservations Must Be Made in Advance

Students desiring rooms in the University buildings must have their reservations made in advance, or the management cannot guarantee to them accommodations. Each application for a reservation should be accompaned by a check for $7.50 to cover room rent for the term. *Make all checks payable to the University of North Carolina.* Application should be made to the Director of the Summer School prior to June 1, in order that applicants may be notified before leaving home whether or not their reservations have been made as requested.

Those who find it necessary to communicate with the Summer School office by telephone about reservations should call Miss Lillian Long, Assistant Secretary, through whom all dormitory reservations for the Summer School are made.

What the Student Must Furnish

Students occupying rooms in the University dormitories must furnish their own bed-linen, pillows, towels, etc. Each student who secures a room in one of these dormitories will be expected to bring the following articles:

1 pillow.
2 pairs pillow-cases.
2 pairs of sheets (for single bed).
2 counterpanes.
6 towels.

Laundry Department: Fee

The University owns and operates a modern laundry which is conducted on a strictly scientific basis. Students (except those who live with their families in Chapel Hill) are required to send their work to the University laundry. A laundry fee of $6.00 to be paid at the time of registration is required of each student, against which a charge is made for the work done. If the amount of work done exceeds the amount of this deposit, the student is required to pay the excess. If the amount of work done is less than the deposit, the balance is refunded, except that a minimum average charge of twenty-five cents a week will be made.

All work is accepted on piece-price basis. The charges are exceedingly reasonable and are made strictly in accordance with the cost of operation. This enables the students to get their laundry work at a cost below the usual commercial prices.

The laundry accepts complete responsibility for all goods intrusted to its care and will pay for any articles lost or damaged.

Books and Materials

Students of the Summer School will be expected to provide themselves with all books and materials required for their individual use in the courses pursued. Most of the texts to be used are announced in connection with the description of the various courses. Students may procure their books before coming to the Summer School, or they may get them here at the Book Exchange, at the usual market prices.

Schedule

In the Summer School schedule the day is divided into periods as follows:

Morning Hours

First Period	8:00 to 9:00
Second Period	9:00 to 10:00
Third Period	10:00 to 11:00
Fourth Period	11:00 to 12:00
Fifth Period	12:00 to 1:00

Afternoon Hours

First Period	2:00 to 3:00
Second Period	3:00 to 4:00
Third Period	4:00 to 5:00
Fourth Period	5:00 to 6:00

A daily schedule of recitations showing the hours and places of meeting for the various classes should be secured by each student at the time of registration.

Vesper Service

The University Summer School recognizes the daily vesper service as the official devotional period for the campus. Vesper service will be held immediately following supper each evening, except Saturday and Sunday, on the lawn under Davie poplar, or in Gerrard Hall in case of rain. This service will be of fifteen minutes length, and will consist of songs, scripture reading, and prayer. Attendance is voluntary. There will be no chapel service apart from the vesper service.

Recreation and Entertainment

In addition to the regular courses of instruction scheduled in the various departments, there will be some form of recreation and entertainment provided each week while the Summer School is in session.

Reduced Fares

Reduced railroad rates on the round trip identification plan have been authorized from all stations in North Carolina, South Carolina, and Virginia (except those on the Richmond, Fredericksburg and Potomac Railroad, and Winston-Salem Southbound Railway), also from Augusta, Georgia, and Washington, D. C.

Expenses for Each Term

Not counting the cost of such variable items of expense as board, travel, books and materials (including laboratory fees), and laundry, and excluding all other incidental and extra charges, the fixed items of expense, each term for those who live in the college dormitories are as follows:

	Each Term
Room in University Dormitory other than Spencer Hall and Mary Ann Smith Building	$ 7.50
Registration Fee (on Regular Registration Days)	15.00
Tuition Fee‡	12.50*
Total (for those who are not Teachers)	$35.00
Exemption for Teachers (Registration Limited to 3 courses)	12.50*
Total for Teachers (Registration Limited to 3 courses)	$22.50

A Laundry Fee of $6.00 will be charged all registrants at the time of registration. (See Laundry Department: Fee, page 26.)

Fees for students in the School of Engineering are as follows for each term of six weeks:

	Residents of State	*Non-Residents*
First term Juniors		
Registration and Tuition	$31.67	$44.17
Third term Juniors		
Registration, Tuition and Coöperative Fee	35.42	47.92

Other minor fees such as those required for laundry, late registration, changes in registration, laboratory fees, etc., will apply to students in the School of Engineering as well as other students.

The general regulations governing the refund of fees will also apply to students in the School of Engineering.

Free Tuition for Teachers†

Teachers now in service in the schools of North Carolina and residents of the State who are preparing to teach may be exempt from the payment of the $12.50 tuition fee under the following conditions:

1. They must be eligible to enter the Summer School.
2. They must file an application for the tuition exemption at the time of registration.
3. Residents of the State who are preparing to teach will be required to sign the usual teacher's agreement to teach in North Carolina or to pay the tuition within a given length of time in case they do not teach.
4. Those who are not residents of the state, but who at the time of registration have been employed to teach in North Carolina for the year 1931-'32 will be accorded the same free tuition privileges as if they were residents of the State preparing to teach.

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* For students who are not residents of North Carolina, the tuition fee (for three courses) is $25.00 for one term, or $40.00 for both terms.

‡ This is the tuition fee for all whose registration is limited to 3 courses (fifteen hours a week). Those registered in the Division of Elementary Education who are seeking Certificate credit only may register for 4 courses (twenty hours a week) without the payment of an additional fee for tuition. Others in the Division of Elementary Education will be required to pay $5.00 for each additional Summer School course.

† The word "teacher" as here used is meant to include not only teachers but principals, supervisors, and superintendents.

5. All students availing themselves of the free tuition privilege for teachers will be required to satisfy the state's professional requirements for the class of certificate they are seeking, or the professional requirements for that class of certificate next above the class of certificate now held. This does not mean that the professional requirements must be met in full in the summer of 1931, but they must be met by the time the academic requirements for the next higher class of certificate are met.

Summary of Fees and Expenses

In all cases, unless otherwise noted, the fees listed below are to be paid to the University Treasurer at the time of registration or at the time the service for which the fee is charged is rendered.

1. *Registration Fee, $15.00.* Required of all registrants.
2. *Tuition Fee, $12.50.* Required of all except teachers. See Free Tuition for Teachers, above.
3. *Extra Tuition Fee, $5.00.* Required of those only in the College and Graduate Division allowed to register for more than 3 courses.
4. *Late Registration $2.50 to $5.00.* Required of every student in the First Term registering after June 11, and of every student in the Second Term registering after July 22.
5. *Changes in Registration, 25 cents each.* After June 15 a charge of 25 cents will be made for each change a student makes in his registration for the first term. After July 25 the same charge will be made for each change in registration for the second term.
6. *Laundry Fee, $6.00.* Required of all registrants. This fee may be refunded to students who live at home and have their laundry work done elsewhere than at the University Laundry. See under Laundry Department.
7. *Room Rent, $7.50.* This is paid through the office of the Director at the time the reservation is made.
8. *Table Board, $35.00.* A flat charge for board at Swain Hall for each term of the Summer School. Payable to the Treasurer at the time of registration by those desiring board at Swain Hall.
9. *Music Fees.* These vary for different courses. (See list of courses offered by the Department of Music.) In addition to the tuition fees a special fee of $2.00 for the term is charged those desiring assignment to a practice room. All music fees are paid at the office of the Department of Music.
10. *Diploma Fee, $5.00.* Required of all those graduating.
11. *Laboratory Fees.* These vary for the different departments and for different courses in the same department. They are as follows:

Botany:

s1 or s41	$ 4.00
s43	4.00
s103	4.00
s114	4.00
s154	4.00
s214	4.00
s254	4.00

Chemistry:

s1	$ 5.50
s2	5.50
s31	10.00
s42	10.00
s61	10.00
s62	10.00
s167	10.00

Chemistry—Continued:

s168	$10.00
s169	7.00
s351	10.00
s361	10.00
s381	10.00

Commerce:

Library Fee	$ 1.00
s71	3.00
s72	3.00

Engineering:

s52c	$ 5.00
s53c	5.00
s55a	4.00
s56a	5.00
s60a	8.00
s62a	5.00
s62c	5.00
s63a	5.00
s63c	5.00

English:

s63a	$ 2.00

Geology:

s5	$ 3.50
s11	3.00
s12	3.00
s45	2.50
s48-49	30.00
s51	2.50
s53	2.50

Physics:

s21	$ 4.00
s22	4.00
s102	3.00
s104	3.00
s105	3.00

Psychology:

s21	$ 4.00
s22	4.00
s104a	2.00

Zoölogy:

s1 (b)	$5 .00

Refund of Fees

1. Fees paid in advance for room reservation for the first term will be refunded on application up to and including June 5 but not after that date, and for the second term, up to and including July 11.
2. If for any reason, a student, after registering, finds it necessary to withdraw from the Summer School, registration and tuition fees, on application presented within the dates specified below, will be refunded, but in strict accordance with the following regulations:
   (1) If application is made on the day of registration, the amount paid, less a flat overhead charge of $2.50, will be refunded.
   (2) If application is made within a period of 4 days after class work begins, a flat overhead charge of $10.00 will be deducted from the amount paid and the remainder refunded.
   (3) After a period of 4 days from the time class work for the term begins, no refund of registration and tuition fees will be made, except in the case of illness necessitating the student's withdrawal, in which case a proper adjustment will be made within a period of 10 days after class work begins, subject to the approval of the Administrative Board.
   (4) In case of a student's withdrawal from the Summer School, proper adjustment will be made in the charges for table board, laboratory fees, and laundry fees. After necessary deductions are determined by the department concerned in each instance, appropriate refunds of any unused part of such charges or fees will be made to the student.
   (5) Extra fees paid for late registration may not be refunded for any reason except by action of the Administrative Board.

PART II—COLLEGE AND GRADUATE DIVISION

The letter s, meaning summer, is prefixed to the numbers of courses to distinguish them from the numbers employed in the annual catalogue to designate the courses of the regular college year.

The letter C indicates that a course may be counted toward the bachelor's degree in the appropriate School or College of this University as indicated by the Roman numerals added after the statement of the amount of credit carried by the particular course The letter E in the case of French and Spanish courses indicates that entrance credit is given. In this scheme of numerals I means College of Liberal Arts; II, School of Education; III, School of Commerce; IV, Premedical course, or for S.B. in Medicine; V, School of Applied Science; VI, School of Engineering; the abbreviation G indicates that a course so marked is of graduate grade and may be counted toward the master's degree.

In this Announcement in the listing of courses under the several departments we are giving the new numbers followed in parentheses by the old numbers. In case of courses not listed last year no old numbers are shown.

ARCHAEOLOGY

(See under Art History)

ART HISTORY*

Courses for Undergraduates

s61a (s61a). Art History. (Not given in 1931.)

s61b (s61b). Art History. (Not given in 1931.)

s61c (s61c). Art History.
Credit, ½ course. C. I, II. Five hours a week. First term. Junior and Senior elective. Mr. Bernard. Hour: 11:00 daily.
Painting and the minor arts from earliest times with emphasis on the great Renaissance period. Lectures with pictures and lantern slides.

s65 (s65). Art History (Ancient Art).
Credit, ½ course. C. I, II. Five hours a week. Second term. Junior and Senior elective. Mr. Harland. Hour: 9:00 daily.
The purpose of this course is to acquaint the student and teacher of Ancient History with the art of Egypt, Mesopotamia, Greece, and Rome as an interpretation of life and civilization. Lectures illustrated with lantern slides, and required reading.

s66 (s66). Art History (Greek Art).
Credit, ½ course. C. I,II. Five hours a week. Second term. Junior and Senior elective. Mr. Harland. Hour: 10:00 daily.
This course will deal primarily with Greek Sculpture, but Greek Painting and Vases will also be studied. Lectures illustrated with lantern slides, and required reading.

* For other related courses, see under Greek.

BOTANY

Courses for Undergraduates

***s1 or s41 (s1). General Botany.**
Credit, 1 course. C. I, II, III, IV, V. Four lectures and four laboratory hours a week. Through both terms. Laboratory fee, $4.00. First term, Mr. Couch and Mr. Mathews. Second term, Mr. Totten and Mr. Mathews. Hours: Lectures, 11:00 T., W., Th. and F. Laboratory 3:00 to 5:00 T. and Th.

This course is an introduction to the structure, physiology and classification of plants. Study will be made of the algae, fungi, bacteria, mosses, ferns, and seed plants. Lectures with laboratory and field work. A part of the work will be out of doors in a study of the trees, shrubs, vines and herbs of Chapel Hill and the practice in the use of keys for their identification. This course covers much the same ground and carries the same credit as Botany 1 or Botany 41 given in the fall and spring quarters. Freshmen, Sophomore, Junior and Senior elective.

s43 (s2). Structure and Classification of Seed Plants.
Credit, 1 course. C. I, II, III, IV, V. Three lectures and six laboratory hours a week. Through both terms. Laboratory fee, $4.00. First term, Mr. Couch or Mr. Mathews. Second term, Mr. Totten. Hours: Lectures, 2:00 M., W. and F. Laboratory, 3:00 to 5:00 M., W. and F. Prerequisite, General Botany.

This course is a continuation of Botany s1, with more advanced work in the structure and classification of seed plants. Special attention will be given to the study of the local flora, and of the introduced ornamental plants found in the Arboretum. The greenhouse and nursery as well as the laboratory will be used. This course covers much the same ground and carries the same credit as Botany 2 given in the spring quarter. Sophomore, Junior and Senior elective.

Courses for Graduates and Advanced Undergraduates

s103. Structure and Classification of the Algae.
Credit, 1 or ½ course. Two lectures or report and six laboratory or field work hours a week. Through both terms. Laboratory fee $4.00. First term, Mr. Couch. Second term, Mr Totten.
Prerequisite, General Botany. Hours to be arranged.

s114. Structure and Development of the Fungi.
Credit, 1 course. Lectures, reports and laboratory work. First term. Laboratory fee, $4.00. Mr Couch.
Prerequisite, General Botany. Hours to be arranged.

s154 (s102). Advanced Work in the Structure and Classification of the Seed Plants.
Credit, 1 course. Field work, laboratory work, conferences and reports. Second term. Mr. Totten. Laboratory fee, $4.00.
Prerequisites, General Botany and Botany 43 or s43.

Courses Primarily for Graduates

s214 (s104). Morphology and Physiology of the Fungi.
Credit, 1 course. G. Lectures, reports, and laboratory work. First term. Laboratory fee, $4.00. Mr. Couch.

s254 (s107). Morphology of Seed Plants.
Credit, 1 course. G. Lectures, reports, and laboratory work. Second term. Laboratory fee, $4.00. Mr. Totten.

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* (Freshmen take Botany s1; sophomores, juniors and seniors take s41.)

CHEMISTRY

Courses for Undergraduates

s1 (s1). General Descriptive Chemistry.
Credit, 1 course. C. I, II, III, IV, V. Four lectures and four laboratory hours a week. Through both terms. First term, Mr. Wheeler and Mr. Thomas. Second term, Mr. Edmister. Laboratory fee, $5.50. Hours: Lectures, 8:00 M., W., F., S. Laboratory, 10:00 to 12:00 M., W.
Introduction to Inorganic Chemistry.

s2 (s2). General Descriptive Chemistry.
Credit, 1 course. C. I, II, III, IV, V. Eight lectures and eight laboratory hours a week. This course is open to students who have completed Chemistry s1, or who have satisfactory grades in Chemistry s1 at the end of the first term. Second term, Mr. Edmister. Laboratory fee, $5.50. Hours: Lectures, 9:00 daily. Laboratory, 10:00 to 12:00 T., Th., F., S.
Continuation of Chemistry s1.

s31 (s31). Qualitative Analysis.
Credit, 1 course. C. I, II, IV, V. Five lectures and fifteen laboratory hours a week. First term, Mr. Dobbins. Laboratory fee, $10.00. Hours: Lectures, 2:00 daily. Laboratory, 3:00 to 6:00 daily.

s42 (s42). Quantitative Analysis.
Credit, 1 course. C. I, II, IV, V. Five lectures and fifteen laboratory hours a week. First term, Mr. Dobbins. Laboratory fee, $10.00. Hours: Lectures, 10:00 daily. Laboratory, 3:00 to 6:00 daily.

s61 (s61). Organic Chemistry.
Credit 1 course. C. I, II, IV, V. Prerequisite Chemistry s31. Six lectures and twelve laboratory hours a week. First term, Mr. Wheeler and assistant. Laboratory fee, $10.00. Hours: Lectures, 9:00 daily. Laboratory, 10:00 to 12:00 daily.
Chemistry of the aliphatic compounds.

s62 (s62). Organic Chemistry.
Credit, 1 course. C. I, II, IV, V. Prerequisite, Chemistry s61. Six lectures and twelve laboratory hours a week. Second term, Mr. Bost. Laboratory fee $10.00. Hours: Lectures, 9:00 daily. Laboratory, 10:00 to 12:00 daily.
Chemistry of the aromatic compounds.

s81 (s81). Physical Chemistry.
Given in alternate years (given in 1931). Credit, 1 course. C. I, II, IV, V. Six lectures and twelve laboratory hours a week. First term, Mr. Crockford and Mr. Thomas. Hours: Lectures, 11:00 daily. Laboratory 2:00 to 6:00 M., W., F.
The properties of solids, liquids and gases as related to chemical constitution.

s82 (s82). Physical Chemistry.
Given in alternate years (not given in 1931). Credit, 1 course. C. I, II, IV, V.

Courses for Graduates and Advanced Undergraduates

s167 (s67). Advanced Organic Preparations.
Credit ½ course. C. I, II, IV, V, or G. Prerequisite, Chemistry s62. Twelve laboratory hours a week. First term, Mr. Wheeler. Laboratory fee, $10.00. Hours, to be arranged.

s168 (s68). Advanced Organic Preparations.
Credit, ½ course. C. I, II, IV, V, or G. Prerequisite, Chemistry s62. Twelve laboratory hours a week. First term, Mr. Wheeler. Laboratory fee, $10.00. Hours, to be arranged.
Continuation of Chemistry s167.

s169 (s69). Quantitative Organic Analysis.
Credit, ½ course. C. I, II, IV, V, or G. Prerequisite, Chemistry 63. Twelve laboratory hours a week. Second term, Mr. Bost. Laboratory fee, $7.00. Hours, to be arranged.

s183 (s83). Physical Chemistry.
Given in alternate years (given in 1931). Credit, 1 course. C. I, or G. Prerequisite, Chemistry 81 and 82. Twelve lectures a week. First term, Mr. Crockford. Hours: Lectures, 8:00 to 10:00 daily.
Advanced Physical Chemistry.

Courses for Graduates

s251 (s122). Advanced Inorganic Chemistry.
Credit, ½ course. G. Second term, Mr. Edmister.
Seminar dealing with recent advances in Inorganic Chemistry.

s261 (s162). Advanced Organic Chemistry.
Credit, ½ course. G. Second term, Mr. Bost.
Seminar dealing with recent advances in Organic Chemistry.

s351 (s121). Research in Inorganic Chemistry.
Credit, 1 course. G. Second term, Mr. Edmister. Laboratory fee, $10.00.

s361 (s161). Research in Organic Chemistry.
Credit, 1 course. G. First, term, Mr. Wheeler. Second term, Mr. Bost. Laboratory fee, $10.00.

s381 (s181). Research in Physical Chemistry.
Credit, 1 course. G. First term, Mr. Crockford. Laboratory fee, $10.00.

COMMERCE AND ECONOMICS
COMMERCE

Courses for Undergraduates

s51 (s10). Business Organization.
Credit, 1 course. C. III. Ten hours a week. First term. Mr. Schwenning. Hours: 9:00 and 11:00 daily.
Prerequisite, Economics 31-32.
The forms of business organization with emphasis on the corporation. The external relations of a business organization and the internal coördination of the factors in production with a view to the establishment of effective control and definite responsibility for results. Special attention will be directed to the various functions to be performed, such as, production, finance, personnel, marketing, risk-taking, and records and standards.

s71 (1). Accounting Principles.
Credit, 1 course. C. III. Ten hours a week First term. Laboratory fee, $3.00. Mr. Sherrill. Hours: 2:00 to 4:00 daily.
Prerequisite or corequisite, Economics 31-32, Commerce 51.
Lectures with laboratory work. Study of theory of debit and credit, record making, organization of accounts, and presentation of financial and profit and loss statements. Laboratory exercises in accounting problems and technique.

s72 (2). Accounting Principles (Continued).
Credit, 1 course. C. III. Ten hours a week. Second term. Laboratory fee, $3.00. Mr. Peacock. Hours: 2:00 to 4:00 daily.
Prerequisite, Commerce 71.
Lectures and laboratory work. An approach to accounting problems from the business manager's point of view. It consists of a thorough study of the organization of the accounting department of a business and its relation to the other departments, accounting systems, construction and analysis of accounting statements. The principles of valuation of assets, depreciation, and bonds are also covered, and a general survey made of such fields as cost, municipal, and railway accounting.

ECONOMICS

Courses for Undergraduates

s31 (1). General Economics.
Credit, 1 course. (Not counted for credit without Economics 32). C. I, II, III, IV, V. Ten hours a week. First term. Mr. Evans. Hours: Section I, 8:00 and 10:00 daily; Section II, 8:00 and 11:00 daily.
This course covers the same ground as Economics 31 in the regular session and is planned to give an understanding of the general principles underlying our complicated industrial life. The first part of the course deals with the organization of economic society. This survey is followed by a critical analysis of certain phases of the economic process, production, consumption, and the market.

s32 (2). General Economics (Continued).
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. Second term. Mr. Spruill. Hours: 8:00 and 10:00 daily.
Prerequisite, Economics 31.
The subject matter of this course is the same as that of Economics 32 in the regular session The analysis of the economic process started in Economics 31 is continued and completed. The exchange and distributive processes are examined. The remainder of the courses will deal with the problems of monopoly and combination, transportation, labor, public finance, and economic reform. The object will be to give the student an understanding of the fundamental aspects of these subjects, sufficient for a comprehensive, well-organized basis for independent constructive thinking, or an adequate foundation for advanced study in the field of economics and industry.

s81 (10). Money and Currency.
Credit, 1 course. (Not counted for credit without Economics 82.) C. I, III, IV, V. Ten hours a week. First term. Mr. Murchison. Hours: 8:00 and 10:00 daily.
Prerequisite, Economics 31-32.
Origin and functions of money. The standard problem. Relationship between money and prices. Economic principles governing the issuance and retirement of credit money. International gold movements. Inflation and deflation. Effects of the war upon the world's monetary systems.

s82 (11). Banking and Credit.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. Second Term. Mr. Keister. Hours: 9:00 and 11:00 daily.
Prerequisite, Economics 31-32 and 81.
The place of the commercial bank in the economic organization. Functions and major operations of a bank. Relationships between loans and discounts, deposits, reserves, capital, and surplus. Process of financing

the business man. Investigating the credit risk; determining the line of credit. The banking system as a whole; clearing house associations, correspondent banks, bankers' banks, the Federal Reserve System. Government control of banking.

Courses for Graduates and Advanced Undergraduates

s121 (20). Risk and Risk-Bearing.
Credit, 1 course. C. I, II, III, IV, or G. Ten hours a week. First term. Mr. Lear. Hours: 9:00 and 11:00.
Prerequisite, Economics 31-32.
A study of the risk element in modern industry, together with the measures which have been devised to meet it. This course should precede the study of insurance.

s144 (54). Theories and Forms of Business Enterprise.
Credit, 1 course. C. I, II, III, IV, or G. Ten hours a week. First term. Mr. Heath. Hours: 8:00 and 10:00.
Prerequisite, Economics 31-32.
This course deals primarily with the combination movement. But it will treat this problem in its widest aspects: the historical background and the evolution of modern business forms, the theory of business enterprise, the structures and functions of organization, the relation of these questions to social welfare. Pools, trade associations, mergers, trusts, bankers' control, price control, are some of the principal questions which will be considered.

s161 (26). International Trade: Theory and Policies.
Credit, 1 course. C. I, II, III, IV, V, or G. Ten hours a week. Second term. Mr. Zimmerman. Hours: 9:00 and 11:00 daily.
Prerequisite, Economics 31-32.
In this course international trade is viewed from the standpoint of the political economist, emphasizing the social aspects. After an historical study of the past and a critical anaylsis of the present foreign commerce of the United States and principal commercial rivals, an effort is made to apply to a survey of our foreign markets and of our foreign soures of supply the general principles of economic theory in so far as they pertain to international trade. Following this the payment balances of this country and of other leading countries engaged in world commerce are critically studied. Finally, the most important theories of international trade are reviewed in the light of historical development.

s191 (30). Labor Problems.
Credit, 1 course. C. I, II, III, IV, or G. Ten hours a week. Second term. Mr. Wolf. Hours: 8:00 and 10:00 daily.
Prerequisite, Economics 31-32.
To the extent that the competitive wage system fails (a) to provide for the laborer an adequate basis for a decent living and (b) to draw from him the services he ought to render to industry, there appears to be a "labor problem." The purpose of this course is to make an analytic survey of the modern labor problem in its major aspects, such as unemployment, low wages, industrial accidents and diseases, overstrain and superannuation, and the status of the worker in industrial society. Trade unionism and the labor movement and intervention by the state in behalf of the workers, social methods of coping with the problems of labor, are also surveyed.

s195 (40). Theories of Economic Reform.
Credit, 1 course. C. I, II, III, IV, or G. Ten hours a week. First term. Mr. Carroll. Hours: 9:00 and 11:00 daily.
Prerequisite, Economics 31-32.

The object of this course will be to examine critically the most prominent of the current proposals of economic reform, such as socialism, Bolshevism, the single tax, profit sharing and labor copartnerships, and industrial democracy: This course may be taken by those who wish neither college nor graduate credit.

COMPARATIVE LITERATURE

s61 (s14). History of Greek Literature, with Emphasis on the Epic and Drama.
Credit, ½ course. C. I, II. Five hours a week. First term Mr. Bernard. Hour: 9:00 daily.

EDUCATION

Courses for Undergraduates

s31 (s1). Introduction to Educational Psychology.
Credit, 1 course. C. I, II, III. Five hours a week. Through both terms. First term, Mr. Shepard; second term, Mr. Hunter. Hour: 8:00 daily.
Education is viewed in this course as a series of changes in individual pupils. The elementary principles of educational psychology will be illustrated and studied briefly through assigned readings, experiments, and discussions.

s31a (s1a). Introduction to Educational Psychology (First half of Education s31).
Credit, ½ course. C. I, II, III. Five hours a week. Each term. First term, Mr. Shepard. Hour: 11:00 daily. Second term, Mr. Hunter. Hour: 12:00 daily.

s31b (s1b). Introduction to Educational Psychology (Second half of Education s31).
Credit, ½ course. C. I, II, III. Five hours a week. Each term. First trem, Mr. Shepherd. Hour: 12:00 daily. Second term, Mr. Hunter. Hour: 8:00 daily.

s51P* (s82P). Reading and Study Habits for the Primary Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss Lacy. Hours: 8:00 to 10:00 daily.
A study of the problems in beginning reading: the various methods of teaching reading and developing effective study habits.

s52G (s82G). Reading and Study Habits for the Grammar Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss Krebs. Hours: 11:00 to 1:00 daily.
The aim of this course is to become acquainted with the materials and methods of teaching reading as a means of extending the experiences of boys and girls, of stimulating good thinking and arousing interest in a wide variety of reading activities.

s53Xa (s83Xa). Materials and Methods of Teaching Social Science.
Credit, ½ course. C. II. Five hours a week. First term. Miss Echford. Hour: 9:00 daily.

*The letter "P" when used in connection with the number of a course means that the course is intended for teachers of the Primary Grades; the letter "G," that the course is intended for teachers of the Grammar Grades; and the letter "X," that the course is intended for teachers of either Primary or Grammar Grades.

The first half (Part a) is designed to give a thorough survey of recent experiments and special studies in subject matter and methods in geography, history, and citizenship. Suggestions will be given for utilizing daily activities to develop civic virtues.

s53Xb (s83Xb). Materials and Methods of Teaching Natural Science.
Credit, ½ course. C. II. Five hours a week. First term. Miss Echford. Hour: 10:00 daily.

The second half of this course (Part b) deals with natural science and health. The general principles controlling the selection of material and its organization for each grade will be presented. The methods of presenting the subject matter will be demonstrated in connection with certain typical material.

s54Pa (s84Pa). Arithmetic, Primary Numbers and Projects.
Credit, ½ course. C. II. Five hours a week. First term. Miss Lacy. Hour: 10:00 daily.

The first half of this course (Part a) will emphasize the development of number concept in primary grades. The place of drill; kind and amount of formal arithmetic in these grades; projects and activities as a basis for the formal number work.

s54Pb (s84Pb). Language for Primary Grades.
Credit, ½ course. C. II. Five hours a week. Each term. First term, Miss Stevens. Hours: Section I, 10:00 daily; Section II, 12:00 daily.

The object of the second half (Part b) of this course is to teach self-expression of oral and written language in life-like situations. Projects and other activities are made a basis of this work. The educational value of dramatization will be stressed.

s55Ga (s84Ga). Arithmetic for Grammar Grades.
Credit, ½ course. C. II. Five hours a week. First term. Miss Krebs. Hour: 10:00 daily.

The first half of this course (Part a) will give a careful study of the investigations revealing the course of mathematical facts which are necessary for all people to acquire, also methods of teaching these facts thoroughly.

s55Gb (s84Gb). Language and Composition for the Grammar Grades.
Credit, ½ course. C. II. Five hours a week. Each term. Miss Stevens. Hour: 8:00 daily.

The second half (Part b) aims to study means of speaking effectively and pleasingly. Written language, obtaining good form through genuine use, including composition, writing, and spelling. A study will be made of: (1) Various vocabulary studies; (2) How to encourage pupils to make use of words learned; and (3) How best to measure the results of teaching.

s62a (s62a). Measurements in Elementary Education.
Credit, ½ course. C. I, II. Five hours a week. Second term, Mr. ————. Hour: 9:00 daily.

Methods of measuring and improving the results of instruction in the elementary school will be given detailed consideration in this course. Students will be made acquainted with the most important tests and scales and will be given some experience in interpreting the results, both statistically and practically.

s63 (s46Xa). Classroom Management.
Credit, ½ course. C. II. Five hours a week. Each term. First term, Miss Echford. Hour: 10:00 daily.

This course takes up for investigation and discussion the teacher's problems in managing her classroom. It does not deal with instructional

problems, which are considered in the courses in materials and methods, nor with the administration of a school, which is considered in other courses. But it does consider specifically the organization and direction of pupils and equipment in a classroom.

s71 (s20). Educational Psychology.
Credit, 1 course. C. I, II, III. Four lectures and two laboratory hours a week. Through both terms. Mr. Garinger. Hour: 11:00 daily.
To consider critically such topics as the original nature of man, heredity versus environment, kinds of learning and factors influencing learning, individual differences, mental hygiene, mental measurement is the purpose of this course.

s71a (s20a). Educational Psychology (First half of Education s71).
Credit, ½ course. C. I, II, III. Five hours a week. Each term. First term, Mr. Garinger. Hour: 11:00 daily. Second term, Mr. Garinger. Hour: 10:00 daily.

s71b (s20b). Educational Psychology (Second half of Education s71).
Credit, ½ course. C. I, II, III. Five hours a week. Each term. First term, Mr. Garinger. Hour: 10:00 daily. Second term, Mr. Garinger. Hour: 11:00 daily.

s81 (s70). Materials and Methods of Teaching High School English.
Credit, 1 course. C. II. Ten hours a week. Each term, Mr. Farrar. Hours: 10:00 to 12:00 daily.
This course is designed to give practical preparation for the teaching of English in high schools. It includes consideration of the aims, courses of study, and methods found most effective in the teaching of grammar, composition (oral and written), and the different types of literature to pupils of high school age.

s89 (s78). Materials and Methods of Teaching High School Mathematics.
Credit, 1 course. C. II. Ten hours a week. Through both terms. Mr. Munch. Hour: 8:00 daily.
A course designed to give those preparing to teach Mathematics in high school a comprehensive view of that field. It is composed of Six Units as follows: History of Mathematics, Objectives of Mathematics Teaching, Materials, Methods, the Psychology of Mathematics Teaching, and Measuring in the field of Mathematics. Reading and reports on these units will be required.

s91 (s80). Materials and Methods of Teaching High School Science.
Credit, 1 course. C. II. Ten hours a week. Each term. Mr. Preston. Hours: 10:00 to 12:00 daily.
This course will consider the educational preparation of the science teacher, the historical development of secondary school science—its changing aims and organization of materials—as a background for the understanding of present-day aims; the influence of these aims upon selection of subject-matter, methods of organizing and presenting it, and of testing results. Specimen teaching units, selected from the different sciences, will be prepared by students and discussed as to content, method, and use of materials.

s98 (s52). General Methods in Secondary Education.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. Mr. Mosher. Hour: 11:00 daily.
This course deals with a general survey of the nature of the secondary school pupil and of the nature of the subject matter taught in secondary schools; a study of the laws of learning which underlie and determine the

conduct of the recitation and the management of the class. Considerable attention is given to the types of learning involved in the different high school subjects and economical methods of instruction. Textbooks, lectures, assigned readings, and reports.

s99 (s51). Principles of Secondary Education.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. Mr. Mitchell. Hour: 12:00 daily.

A study of the American high school, its evolution, organization, administration, functions, and problems. Special emphasis will be laid on the public high school in North Carolina. This course is designed especially to meet the needs of those students who are looking toward teaching positions and principalships in secondary schools.

Courses for Graduates and Advanced Undergraduates

s101 (s41). Introductory Course in School Administration.
Credit, 1 course. C. I, II, or G. Ten hours a week. Second term. Mr. Howard. Hours: 8:00 to 10:00 daily.

This course will consider some of the important problems of school administration, especially as these problems bear on the success of the teacher's work. Students without teaching experience, or teachers without a knowledge of administrative problems, should not register for the more specialized courses in the field of administration until after completing this course.

s102 (s42). The Elementary School Principalship.
Credit, 1 course. C. I, II, or G. Ten hours a week. Second term. Mr. Morrison. Hours: 11:00 to 1:00 daily.

The personal qualifications, previous experience, duties, and opportunities of the school principal are studied during the early meeting of this course. The organization of the school program, of the instructional staff, and of the housekeeping staff are then considered in relation to their effects on pupil development. The direction and administration of various elements in the school receive maximum attention in the class. Discussions of experiences, observations, assigned readings, and special reports.

s103 (s43). Elements of Statistical Methods.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Munch. Hour: 9:00 daily.

The first meetings in this course will consider various methods of collecting data for education, psychological, social, and economic investigations. The interpretation of data by graphic and mathematical devices will be taught chiefly by examples. Numbering, tabulation, the calculation of averages and variabilities, the transmutation of measures, and correlations will be included. Readings, demonstrations, problems, reports, and critical discussion.

s105 (s47). Guidance and Administration of Pupils.
Credit, 1 course. C. II, or G. Ten hours a week. First term. Mr. Morrison. Hour: 11:00 to 1:00 daily.

This course undertakes not only to acquaint the student with the extensive literature of scientific research in pupil personnel work, but also to develop through actual handling of individual records, reports, and materials as many as possible of the important skills required of the principal in the classification and promotion of pupils, program making, organization of pupil activities, student government, athletics, etc. Prerequisite: Four

full courses in education, including one in administration, and two years successful teaching experience.

s108 (s40). State School Organization.
Credit, 1 course. C. I, II, or G. Ten hours a week. First term. Mr. Howard. Hours: 8:00 to 10:00 daily.
This course takes up the fundamental principles of educational administration in their applications to the organization of state systems of education. This is the introductory course in school administration and is designed to meet the needs of experienced teachers, principals, supervisors, and superintendents. Textbooks, assigned readings, reports and discussions.

s141 (s26). Education in the South.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Huggins. Hour: 12:00 daily.
This course gives an historical survey of public school education in Southern States with especial attention to its development in organization, administration, and supervision since 1876. Present-day questions in rural education are studied in the light of their historical development, and attention is given to the educational reorganization needed for the proper solution of the new rural life problems.

s142 (s36). Historical Foundations of Modern Education.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Drake. Hour: 11:00 daily.
This course traces the development of some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of the leading educational theorists, and by institutional practice. Textbooks, lectures, investigations, and reports.

s143 (s37). Social and Educational History of the United States.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Drake. Hour: 9:00 daily.
The social and educational institutions and practices of the United States are traced through: (a) The period of transplanting of European institutions; (b) the period of modifications of institutional life to meet new conditions; and (c) the period of development of a social and an educational system of free common schools, high schools, and higher and technical education in harmony with the political and social ideals and institutions of America. Textbook, lectures, investigations, and reports.

s144 (s31). Rural Education.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Howard. Hour: 11:00 daily.
A course planned to meet the needs of students preparing to became rural school teachers, principals, supervisors, and superintendents. It gives consideration to the organization, administration, and supervision of rural school education in the United States, with especial emphasis on the present conditions in the South. The county as the unit of administration and support, federal aid and a national program for rural educational work, the application of the principles, agencies, and methods of supervision to the rural school will be studied. Textbooks, lectures, special investigations, and reports.

s160 (s60). Curriculum Construction.
Credit, 1 course. C. I, II, or G. Ten hours a week. Through both terms. Mr. McKee. Hour: 8:00 daily.

The construction and organization of the elementary school curriculum when based upon human needs. Includes consideration of the teacher's function in curriculum construction, objectives of the school subjects, sources of curricular material and criteria for evaluating it, selection and organization of the pupil-activities through which the objectives may be attained.

s161 (s66). Project Activities in the Elementary Grades.
Credit, 1 course. C. II, or G. Ten hours a week. First term. Mr. McKee. Hours: 10:00 to 12:00 daily.

An attempt will be made in this course to develop criteria by which children's educational activities should be evaluated, the means by which they should be tested, and the principles governing procedures in activity work.

After the establishment of criteria for evaluating the activities of children, the activities listed in various project curricula and the activities suggested by the members of the class will be examined to determine the degrees to which they fulfill the requirements. A critical analysis will also be made of the procedures employed in developing and conducting various types of activities. Required readings, observations, discussions, and special reports.

s162 (s67). Teaching Pupils How to Study.
Credit, ½ course. C. II, or G. Ten hours a week. Second term. Mr. McKee. Hours: 10:00 to 12:00 daily.

The physical and environmental factors that condition effective study, the necessary preliminary preparations for study, techniques for discovering a pupil's present study habits in each subject-matter field, the evaluation and improvement of study habits and programs of study in each field, and techniques for the supervision of practice and growth in each type of study will be considered, practiced, and learned in this course. Investigations, observations, special reports, readings, and discussions. Prerequisite: Three or more courses in education, successful experience as a teacher, and satisfactory evidence of ability to conduct systematic investigations of pupils' study habits.

s163 (s48). Evaluating Classroom Instruction.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. Miss Marks. Hour: 10:00 daily.

The general and specific objectives of instruction are agreed upon in the early meetings of this course. Criteria are then developed for evaluating the materials, techniques, activities, and outcomes of instruction. The latter part of the course consists in applying the criteria to actual classroom lessons in an attempt to develop skill in observing, evaluating, and improving instruction.

s165 (s68). Investigations in Reading.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. Miss Marks. Hour: 12:00 daily.

This course will deal more intensively with such phases of the subject as cannot receive adequate emphasis in the regular methods course. Among the topics which will receive special consideration are: recent investigations of reading abilities and their import; children's interests in reading; analysis of the content of readers now in use in school libraries; reading tests, diagnostic and remedial work.

s171 (s63). The Psychology of Elementary Education.
Section I. Credit, 1 course. C. II, or G. Five hours a week. Through both terms. First term, Mr. Jordan. Second term, Mr. Mathews. Hour: 9:00 daily.

The psychological processes involved in the learning of reading, writing, arithmetic, history and geography. The application of the laws of learning is made to the arrangement of material within each subject. Students registering for this course should have had Education 31 or Psychology 21-22 and one further course in Education. This prerequisite may be waived in case of mature teachers.

Section II. Credit, 1 course. C. II. Five hours a week. Through both terms. Miss Murphey. Hour: 12:00 daily.

This division of the course deals with elements of child psychology in its relation to the processes of elementary education. It is intended for elementary classroom teachers and carries undergraduate credit only.

s183 (s72). Materials and Methods of Teaching High School French.
Credit, 1 course. C. II, or G. Ten hours a week. First term, Mr. Giduz. Hours: 8:00 to 10:00 daily.

In this course the student studies the development of modern language teaching. Particular stress is laid on present-day tendencies, more especially in connection with pronunciation, phonetics, reading, "realia," activities, texts, etc. Weekly reports on readings. A term paper embodying the results of individual research will be required.

s185 (s74). Materials and Methods of Teaching High School History.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. Mr. King. Hour: 9:00 daily.

This course is required of all students in the School of Education who are preparing to teach high school history and the other social studies. The aims, functions, and objectives of the social studies will be carefully analyzed and the history of their place in the American secondary school examined. Such problems as planning and organizing the course, textbooks, and library equipment, maps, pictures, and other visual aids will be considered. A term paper embodying the results of individual records will be required.

s187 (s76). Materials and Methods of Teaching High School Latin.
Credit, 1 course. C. II, or G. Five hours a week. Second term. Mr. Gwynn. Hours: 10:00 to 12:00 daily.

History and tendencies of instruction in Latin, detailed study of high school Latin texts and methods of using them, supplementary reference materials, and bibliographies. Discussions and reports. This course is the same as Latin s87. A term paper embodying the results of individual research will be required.

s194 (s56). Measurements in Secondary Education.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. First term, Mr. Jordan. Second term, Mr Mathews. Hour: 10:00 daily.

Standard tests for measuring the results of secondary school instruction will be examined and discussed. An effort will be made to give students some familiarity with the methods and scales.

s196 (s57). The High School Principalship.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. Mr. Mosher and Mr. Garinger. Hour: 8:00 daily.

This course considers the duties, qualifications, and activities of the principal of a secondary school. Lectures, readings, discussions, investigations, and reports.

s197 (s55). Social Policy and Education.
Credit, 1 course. C. II, or G. Five hours a week. Through both terms. Mr. Mosher. Hour: 9:00 daily.

Fundamental problems in the social and ethical theory of education. Lectures, prescribed readings, essays, and reports. This course deals with problems of social progress from the standpoint of education, attempts to define a social policy for education, and discusses the vital educational issues involved in that policy.

Courses Primarily for Graduates.

s201 (s106) Procedures in Educational Research.
Credit, 1 course. Five hours a week. Through both terms. Mr. Morrison. Hours: 8:00 daily.

This course, for graduate students only, will be required of all candidates for higher degrees in the fields of educational administration and elementary education. Through the examination of selected examples of published research, members of the class will study the methods and techniques to be used in discovering, defining, and analyzing problems for investigation; in locating, gathering, and interpreting data; and in formulating and testing conclusions.

s272 (s110cd). Problems in Educational Psychology.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Mathews. Hours: 2:00 to 4:00 T. and Th.

A graduate course treating intensively of the fundamental facts of educational psychology. This course is designed for those who intend to major in educational psychology and for all those who wish a thorough grounding in the psychological principles of education.

s281 (s170). Problems in the Teaching of English in Secondary Schools.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Farrar. Hour: 8:00 daily.

A course intended for graduate students who have not had Course 81 or for others who have had some experience in teaching English in high schools. It will include an intensive study of the essential elements involved in the teaching of English and investigations of special problems in this field. A term paper embodying the results of his individual research will be required.

s289 (s178ab). Problems in the Teaching of Mathematics in Secondary Schools.
Credit 1 course. G. Five hours a week. Through both terms. Mr. Munch. Hour: 11:00 daily.

This course is designed to meet the needs of advanced students who have taught or are preparing to teach mathematics. The aim is to bring the student in contact with the literature on the subject of the teaching of mathematics through reading and to bring about an understanding of the problems which the teacher of mathematics faces, together with their solution, through lectures and class discussions.

s291 (s180). Problems in the Teaching of Science in Secondary Schools.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Preston. Hour: 8:00 daily.

This course is designed to meet the needs of advanced students who have taught or are preparing to teach Natural Science. The aim is to bring the student in contact with the literature on the subject of the teaching of Natural Science through reading and to bring about an understanding of the problems which the teacher of Natural Science faces, together with their solution, through lectures and class discussions.

s299 (s151). Principles of Secondary Education.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Mitchell. Hours: 4:00 to 6:00 T. and Th.

A systematic course for graudate students, intended primarily for those who have not had Education 99. This course will embrace a study of the American high school, its evolution, organization, administration, functions, and problems. It is designed primarily for high school principals and graduate students who are looking forward to high school principalships.

s341ab (s126ab). Foundations of Education in the South.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Drake. Hours: 4:00 to 6:00 M. and W.

This is a research course in modern educational practices and institutions and is open only to those advanced students who have had Education 141 or Education 142, or the equivalent. Various educational agencies will be studied through investigations, reports, and conferences.

s398 (s101ab). Problems in Secondary Education.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Mitchell. Hours: 2:00 to 4:00 M. and W.

This course is intended for advanced students and is primarily a course in investigation. To be admitted to it, a student must have pursued other courses in secondary education. Students who have not taken Education 99 may be admitted only with special permission of the instructor. At the beginning of the course each student is required to select some one problem for special investigation. The problem for investigation may be chosen by the student but must be subject to the approval of the instructor both as to field and method. A thesis will be required of each student.

s399 (s101cd). Problems in Secondary Education.
Two specific problems will be selected for intensive study and investigation in the summer of 1931. One of these will be "The Organization and Administration of the Junior College" (Section I). The other will be "The Deanship of Girls in Secondary Schools" (Section II).

Section I. Credit, 1 course. G. Ten hours a week. First term. Mr. Mosher and Mr. Butler. Hours: 8:00 to 10:00 daily.

Section II. Credit, 1 course. G. Ten hours a week. First term. Mr. Mosher and Miss Murphey. Hours: 8:00 to 10:00 daily.

ENGINEERING

(Except by special permission, courses in Engineering are open only to students in Engineering who have complied with all prerequisite requirements.)

Undergraduate Courses in General Engineering

G.E.s26abc (s4abc). Mechanics.
Credit, 3 quarter-hours for each section. Six lecture hours a week. First term. Mr. Trimble. (Only two sections of this course will be offered, depending upon registration.) Prerequisite, Mathematics 1-2-3 E, General Engineering 6abc.

The fundamental conceptions of statics, including resultants of force systems, equilibrium of force systems, frictions, centroids, moments of inertia of areas and bodies.

G.E.s56a (s5abc). Applied Mechanics and Strength of Materials.
Credit. 5 lecture and 3 laboratory hours a week. Both terms. Laboratory fee, $5.00.

(Chemical and Civil Engineering students do not take laboratory work or pay laboratory fee.)

Credit for chemical and civil engineering students 5 quarter-hours, for electrical and mechanical engineering students 6½ quarter-hours. C. VI. Mr. Bailey and Mr. Trimble. Prerequisites, Mathematics 24-25-26-E, General Engineering 26abc.

Kinematics and kinetics of particles and rigid bodies, including translation, rotation and plane motion; the principles of work and energy, impulse and momentum. The fundamental principles governing the strength and behavior of beams, columns, truss members, shafting, and various kinds of connections. Parallel laboratory exercises comprise tests of brittle and ductile materials in direct stress, and of rivited and welded joints. Experimental determination of stresses and deflections in beams and columns, and the comparison of these results with calculated values.

Undergraduate Courses in Civil Engineering

C.E.s55a (s42a). Plane Surveying.

Credit, 3¼ quarter-hours. C. VI. Five lecture and three laboratory hours a week. First term. Laboratory fee, $4.00. Mr. Trimble. Prerequisites, Mathematics 1-2-3-E, Civil Engineering 25a.

Elements of plane surveying theory. Intensive practice in the use of instruments and the solution of field problems. For civil engineering students who expect to attend the summer engineering camp.

C.E.s60a (23s). Summer Engineering Camp.

Credit, 12½ quarter-hours. C. VI. Five lecture and forty laboratory hours a week. Second term. Laboratory fee $8.00. Mr. Trimble and Mr. ————.

Prerequisites, Civil Engineering 25a, 55a, or equivalent.

Instruction is given in plane, topographic, railway, highway and hydrographic surveying. The course includes the folowing subjects:

I. Chaining; differential, profile and cross-section leveling; plane table, transit and stadia topographic surveys; solar and stellar observations for the determination of meridian and latitude; triangulation, including base line measurement; measurement of stream discharge; hydrographic surveying.

II. Simple, compound, reverse, spiral and vertical curves; frogs and turnouts; reconnaissance surveys, preliminary surveys; paper locations and final locations; mass diagrams and earthwork computation; slope staking; estimates of quantities and costs.

III. Topographical drawing, mapping of traverse and boundary surveys, area computation, and other work of a similar nature. (Summer camp is located at Brevard, N. C.)

Undergraduate Courses in Electrical Engineering

E.E.s52a (60a). Fundamentals of Electrical Engineering.

Credit, 1½ quarter-hours. C. VI. Three lecture hours a week. First term. Mr. Lear.

Prerequisite, Mathematics 24E, 25E, 26E.

A study of the generation, transmission, control and utilization of electrical energy.

E.Es52c (60s). Fundamentals of Electrical Engineering.

Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week. Both terms. Laboratory fee, $5.00. Mr. Lear and Mr. Winkler.

Prerequisites, Electrical Engineering s52a and 52b.

A continuation of Electrical Engineering s52a and 52b, with special reference to the practical applications of electricity.

E.E.s62a (63a, 73a). Electrical Machinery.
Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week. Both terms. Laboratory fee, $5.00. Mr. Lear and Mr. Winkler.
Prerequisites, Electrical Engineering 22abc and Mathematics 24E, 25E, 26E.
A thorough study of direct-current machines from the standpoint of the theory of design, and economic manufacture.

E.E.s62c (62s, 73s). Electrical Machinery.
Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week. Both terms. Laboratory fee, $5.00. Mr. Lear and Mr. Winkler.
Prerequisites, Electrical Engineering s62a and 62b.
A continuation of Electrical Engineering s62a and 62b, with special emphasis on the use of complex quantities in the solution of problems.

Undergraduate Courses in Mechanical Engineering

M.E.s53a (90a). Steam and Gas Machinery.
Credit, 1½ quarter-hours. C. VI. Three lecture hours a week. First term. Mr. ————————.
Prerequisite, Mathematics 24-25-26E and Physics 21-22-23E. Required of civil and chemical engineering juniors, coöperative sections I and II.
A course in the fundamentals of steam and gas heat-power machinery, designed especially for the needs of students in Civil and Chemical Engineering; includes a study of the principles governing the operation of steam engines, steam turbines, gas engines, boilers and boiler auxiliaries.

M.E.s53c (90c). Steam and Gas Machinery.
Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week. Both terms. Laboratory fee, $5.00. Mr. Hoefer.
Prerequisite, Mechanical Engineering s53a and 53b. Required of Civil and Chemical Engineering juniors, coöperative section II.
A continuation of Mechanical Engineering s53a and 53b.

M.E.s63a (93a). Thermodynamics and Heat Engines.
Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week. Both terms. Laboratory fee, $5.00. Mr. Hoefer and Mr. ————————.
Prerequisite, Mathematics 24-25-26E and Physics 21-22-23E. Required of Mechanical and Electrical Engneering juniors, coöperative sections I and II.
A study of the laws governing the transformation of heat into mechanical energy; properties of gases and vapors; gas and vapor cycles; power, efficiency and performance of heat engines; study of steam engines, steam turbines, gas engines, compressed air, and refrigeration.

M.E.s63c (93c). Thermodynamics and Heat Engines.
Credit, 4½ quarter-hours. C. VI. Three lecture hours and three laboratory hours a week, both terms. Laboratory fee, $5.00. Mr. Hoefer.
Prerequisite, Mechanical Engineering s63a and 63b. Required of Mechanical and Electrical Engineering juniors, coöperative section II.
A continuation of Mechanical Engineering s63a and 63b.

M.E.s68a (91s). Elementary Machine Design.
Credit, 6¾ quarter-hours. C. VI. Nine laboratory hours a week during first term, eighteen laboratory hours a week during second term. Mr. Bailey.
Prerequisite, Mathematics 24-25-26E, General Engineering 26abc, Mechanical Engineering 48abc. Required of Mechanical and Electrical Engineering juniors, coöperative sections I and II.

The study and design of the elementary parts of machines, including riveted joints, screws, keys, shafts, gearing, belting, and power transmissions, using the principles of mechanics and accepted empirical methods as a basis.

ENGLISH

Courses for Undergraduates

s1 (s1). Freshman English.
Credit, 1 course. C. I, II, III, IV, V. Five hours a week. Through both terms. Mr. Stroup. Hour: 9:00 daily.
Intensive reading chiefly in prose; extensive reading among selected books in the Library; training in reading through a progressive series of exercises; training in writing through exercises in sentence-revision and through frequent written composition.

s1a (s1a). Composition.
Credit, 1 course. C. I, II, III, IV, V. Five hours a week. Through both terms. Mr. Wilson. Hour: 9:00 daily.
A prerequisite of English 1 for Freshman who need additional drill in the mechanics of writing. In the case of Freshmen required to take this course it will take the place of an elective course. Upper classmen whose work in other courses is ill-written may be required to take English 1a (without credit).

s21 (s4). English Literature: Prose.
Credit, 1 course. C. I, II, III, IV, V. Five hours a week. Through both terms. Mr. Russell. Hour: 10:00 daily.
Study of representative English prose fiction.

s50 (s37). Shakespeare: The Comedies.
Credit, 1 or ½ course. C. I, II. Five hours a week. Through both terms. Mr. Wright and Mr. McKie. Hour: 8:00 daily.
A study of Shakespeare's contribution to comedy.

s52 (s21). Advanced Composition.
Credit, 1 or ½ course. C. I, II. Five hours a week. Limited to twenty-five. Through both terms. Mr. Howell and Mr. Olsen. Hour: 8:00 daily.
A course in expository writing for students desiring practice in organization of material.

s55a (s31). Play Writing.
Credit, 1 or ½ course. C. I, II. Five hours a week. First term. Mr. Bailey. Hour: 10:00 daily.
A practical course in playwriting. Emphasis is placed on the materials of local tradition and of present-day life. Students are expected to make use of the materials of their own experience and observation.

s63a (s34). Dramatic Production.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Hall. Laboratory fee, $2.00. Hour: 2:00 daily.
A practical course in dramatic production. Acting, directing, and stage arts will be studied.

s75 (s55). Victorian Poetry.
Credit, 1 or ½ course. C. I, II. Five hours a week. Through both terms. Mr. Ericson and Mr. McKie. Hour: 10:00 daily.
A study of Browning and Tennyson.

s81 (s59). American Literature.
Credit, 1 or ½ course. C. I, II. Five hours a week. Through both terms. Mr. Adams and Mr. Olsen. Hour: 9:00 daily.
A survey of American literature from Poe and Emerson to Whitman.

s91 (s66). The English Novel.
Credit, 1 or ½ course. C. I, II. Five hours a week. Through both terms. Mr. Bond and Mr. MacMillan. Hour: 11:00 daily.
The development of the English novel.

s100a (s50). Directed Readings.
Credit, ½ course. C. I, II. Second term. Mr. Olsen. Hours: to be arranged.
Recommended for undergraduates majoring in English who desire to prepare for their comprehensive examination. Open also to other students who desire to read in the field of their literary interest.

Courses for Graduates and Advanced Undergraduates

s103a (s83). Chaucer
Credit, ½ course. C. or G. First term. Mr. Ericson. Hour: 11:00 daily.
Previous training in Old or Middle English not a fixed prerequisite. The work of the course will consist chiefly of a reading and discussion of Chaucer's works, with some consideration of Chaucer's language.

s113 (s43). Pre-Shakespearean Drama.
Credit, 1 or ½ course. C. or G. Five hours a week. Through both terms. Mr. Maxwell. Hour: 9:00 daily.
A study of English drama from the beginnings to about the year 1600. Open only to students who have had one of the following: English 37, 38, 40, or an equivalent course.

s131 (s48). English Literature, 1700-1780.
Credit, 1 or ½ course. C. or G. Five hours a week. Through both terms. Mr. Bond and Mr. MacMillan. Hour: 10:00 daily.
The non-dramatic literature of the period.

s141 (s51). English Literature, 1780-1830.
Credit, 1 or ½ course. C. or G. Five hours a week. Through both terms. Mr. Hudson. Hour: 12:00 daily.
A survey of English literature of the romantic period with especial attention to the greater poets.

s167. The Ballad.
Credit, 1 or ½ course. C. or G. Five hours a week. Through both terms. Mr. Hudson. Hour: 11:00 daily.
A study of the English and Scottish popular ballads, with a survey of ballad survivals in America, particularly in North Carolina. Students in the course who may have access to ballads in oral circulation will be encouraged in collecting them.

Courses for Graduates

s231 (s46). Shakespeare.
Credit, 1 or ½ course. G. Five hours a week. Through both terms. Mr. Maxwell. Hour: 10:00 daily.
The works of Shakespeare are studied with emphasis upon the historical and critical problems which they present.

s283 (s64). The Romantic Movement in American Literature.
Credit, 1 or ½ course. G. Five hours a week. Through both terms. Mr. Adams and Mr. Paine. Hour: 8:00 daily.

s312 (s112). Seminar: Studies in Seventeenth Century Literature.
Credit, ½ course. G. First term. Mr. Wright. Hours: 4:00-6:00 M. and Th.
Research in special problems in the literature and thought of the seventeenth century.

s331 (s131). Seminar: Bibliography. Required of all candidates for the M.A. and Ph.D degrees.
Credit, 1 or ½ course. G. Through both terms. Mr. Howell and Mr. Paine. Hours: 4:00-6:00 T. and F.
The principles and methods of the study of English with a series of simple problems in bibliography and literary history. Required of all candidates for the A.M. and Ph.D. degrees.

s340 (s140). Special Readings.
Credit, 1 or ½ course. G. Through both terms. The graduate staff.
Reading in a special field under the direction of a member of the department.

s341 (s141). Special Research.
Credit, 1 or ½ course. G. Through both terms. The graduate staff.
Research in a special field under the direction of a member of the department. This course is especially planned for candidates for advanced degrees.

FRENCH

(See under Romance Languages)

GEOLOGY

Courses for Undergraduates

s5 (s5). Economic Geography.
Credit, 1 course. C. II, III. Second term. Lectures six hours a week, laboratory twelve hours a week. Laboratory fee, $3.50. Mr. Martin.
Course deals briefly with weather and climate, origin and nature of soils, and the chief natural division of the world.

s11 (s1). Introduction to Geology.
Credit, 1 course. Each term. C. I, II, III, IV. Six lectures and twelve hours laboratory work. Laboratory fee, $3.00. First term, Mr. MacCarthy. Second term, Mr. Martin. Hours: Lectures, 8:00. Laboratory hours to be arranged.
Dynamical and Structural Geology; materials of the earth and the agencies affecting them; processes and their results as a key to the interpretation of the earth's history, with special reference to North Carolina. Field and laboratory work. The course is the equivalent of Geology 11, as announced in the University catalogue.

s12 (s2). Historical Geology.
Credit, 1 course. Each term. C. I, II, III, IV. Six lectures and twelve hours laboratory a week. Laboratory fee, $3.00. First term, Mr. MacCarthy. Second term, Mr. Martin. Hours: Lectures 11:00. Laboratory hours to be arranged.

The history of the earth and the evolution of its organisms. Lectures and laboratory work. This course is equivalent of Geology 12, as announced in the University catalogue.

s45 (s8). Meteorology.
Credit, 1 course. C. I, II. First term. Lectures five hours, and ten laboratory hours a week. Laboratory fee, $2.50. Mr. MacCarthy. Hour: 9:00 daily.
A study of the atmosphere, weather and weather forecasting. This course is suited to the needs of aviators and of teachers of general science and geography.

s51 (s21). Industrial and Commercial Geography.
Credit, 1 course. C. I, II, III, IV. First and second terms. Lectures six hours a week, with readings and laboratory work. Laboratory fee, $2.50. Mr. Burhans. Hour: 8:00 daily.
This course deals with the importance of geographical environment and natural resources in their relation to the distribution of industries and to the development of commerce. Illustrated with lantern slides and maps.

s53 (s23). Human Geography.
Credit, 1 course. C. I, II, III, IV. First and second terms. Lectures six hours a week, with readings and laboratory work. Laboratory fee, $2.50. Mr. Burhans. Hour: 11:00 daily.
A study of man's interaction with a varied and varying environment. Planned to give a broader and more critical understanding than that which is had from elementary texts of the relation of man to earth in different parts of the world. Lectures, reference readings, reports.

Courses for Graduates and Advanced Undergraduates

s48-49 (s91-92). Summer Field Course in Geology.
Credit, 2 courses. G. or C. I, II. First term. Fee $30.00. Mr. Prouty.
A six weeks course in practical field geology, emphasizing economic geology, structural geology, stratigraphic geology and geological mapping. The class will travel by automobile, and camp will be established in a number of localities in Western North Carolina, Central and Northwestern Tennessee and Southwestern Virginia. This course offers an excellent opportunity for getting practical field experience at small cost. This course will not be offered unless a sufficient number of students register for it.

s308 (s108). Special Research.
Credit, 1 course. G. or C. First term. Mr. Cobb. Hour: 9:00 daily. Special research in economic geography.

GERMAN

Courses for Undergraduates

s1. Elementary Course.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. First term. Mr. Matthews. Hours: 8:00 and 11:00 daily.
This course is intended for beginners in German. Stress is laid on correct pronunciation. The inflections of nouns and adjectives will be thoroughly explained and practiced. The conjugation of the weak verb

and of the most important strong verbs will be studied. Reading of simple German prose and frequent dictation.

s2. Elementary Course.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. Second term. Hours: 8:00 and 11:00 daily. Mr. Matthews. Continuation of German s1. Translation of German prose. Grammar. Composition.

s3. Intermediate Course.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. First term. Mr. Collins. Hours: 8:00 and 11:00 daily.

This course presupposes the successful study of s1 and s2 or the equivalent. There will be a review of important points of grammar, but much attention will be given to accurate translation. Colloquial exercises, composition, and dictation will be distinct features of the course. This course corresponds to the first term of German 3-4 as described in the University catalogue. When successfully completed it will be accepted for credit.

s4. Intermediate Course.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. Second term. Mr. Collins. Hours: 9:00 and 11:00 daily.

There will be a review of important points of grammar not fully treated in the previous course, German s3; composition; dictation; wide reading of German prose.

This course corresponds to the second term of German 3-4 as described in the University catalogue. When successfully completed it will be accepted for credit.

s22. Introduction to German Literature.
Credit, 1 course. C. I, II, III, IV, V. Ten hours a week. First term. Mr. Toy. Hours: 9:00 and 11:00 daily.

Lectures on German literature. Reading and interpretation of Schiller's *Wilhelm Tell* and Goethe's *Iphigenie auf Tauris.*

GREEK*

Courses for Undergraduates

s61 (s14). Masterpieces of Greek Literature in English Translations.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Bernard. Hour: 9:00 daily.

Selections from the Epic, Lyric, Drama, and Plato's Dialogues will be studied with a view to their influence on modern literature. The course is a condensed form of the college course known as Comparative Literature 61.

Greek 61 may also be taken as a graduate course. In such case the scope of the work will be considerably expanded and concentrated on some special phases of the subject required. Graduate students desiring to register for this course will register for Greek 261.

Courses for Graduates and Advanced Undergraduates

s261 (s114). Masterpieces of Greek Literature in English Translations.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Bernard. Hour: 9:00 daily.

*For other related courses, see under Art History.

HISTORY AND GOVERNMENT

HISTORY

Courses for Undergraduates

s1 (s1). Foundations of Modern History, 1500-1815.
Credit, 1 course. C. Five hours a week. Both terms. Mr. Crittenden. Hour: 9:00 daily.
A general survey of modern history from 1500 to 1815. Textbook and reference readings.

s47 (s7). American History, 1492-1829.
Credit, 1 course. C. Five hours a week. Both terms. Mr. Crittenden. Hour: 8:00 daily.
A general survey of the history of the United States from the first voyage of Columbus to the administration of President Jackson. Textbook and reference readings.

Courses for Graduates and Advanced Undergraduates.

s137 (s39). England in the Nineteenth Century.
Credit, 1 course. C. or G. Ten hours a week. Second term. Mr. Wagstaff. Hours: 11:00 and 12:00 daily.
A study of the history of England from 1815 to 1915. Lectures and readings.

s133 (s40). The French Revolution.
Credit, 1 course. C. or G. Five hours a week. Both terms. Mr. Garrett. Hour: 8:00 daily.
A course in the causes, events, and results of the French Revolution. Lectures, readings, and reports.

s136 (s44). Recent and Contemporary European History.
Credit, 1 course. C. or G. Five hours a week. Both terms. Mr. Garrett. Hour: 10:00 daily.
A course in the recent history of the leading European powers, causes and chief events of the World War, treaties of peace, attempts at reorganization, and recent movements in Europe. Lectures, readings, and reports.

s152 (s54). History of the United States, 1815-1860.
Credit, 1 course. C. or G. Ten hours a week. First Term. Mr. Green. Hours: 11:00 and 12:00 daily.
A course in the political, social, and economic development of the United States during the ante-bellum period. Lectures, readings, and reports.

s155 (s57). Recent American History, 1876-1898.
Credit, 1 course. C. or G. Ten hours a week. Second term. Mr. Pierson. Hours: 11:00 and 12:00 daily.
Emphasis upon the influence of the Civil War and Reconstruction upon subsequent American history; the war amendments to the Federal Constitution in theory and practice; business and politics; social and economic problems; foreign relations; the Spanish-American War and its results; party politics; political dissent and interpretation of democracy. Textbook, lectures, and readings.

s165 (s75). Europe in the Crusading Age (1000-1300).
Credit, 1 course. C. or G. Ten hours a week. First term. Mr. MacKinney. Hours: 11:00 and 12:00 daily.

This course traces the rise of national monarchies, of chivalry, of towns, and of the Church; the expansion of Europe in the Crusades; the political, economic, religious, and cultural life of the period; the struggle between Church and State; and the climax of medieval civilization in the Twelfth and Thirteenth centuries. Lectures, readings, and reports.

Courses for Graduates

s225 (s100). North Carolina History: A Selected Phase.
Credit, 1 course. G. Both terms. Mr. Crittenden. Two hours a week. Hour to be arranged.

s321 (s113). The Protestant Revolt.
Credit, 1 course. G. Both terms. Mr. Garrett. Two hours a week. Hour to be arranged.

s341 (s141). A Research Course in a Special Field.
G. First term. Mr. Green. Conference hours to be arranged.

GOVERNMENT

Courses for Graduates and Advanced Undergraduates

s155 (s34). The Constitution of the United States.
Credit, 1 course. C. or G. Ten hours a week. First term. Mr. Jenkins. Hours: 9:00 and 10:00 daily.

A course in the adoption and development of the Federal Constitution. Emphasis upon cases illustrating the fundamental principles of constitutional interpretation and practice in the United States. Casebook, lectures, and reports.

s131 (s38). American State Government.
Credit, 1 course. C. or G. Ten hours a week. Second term. Mr. Woodhouse. Hours: 9:00 and 10:00 daily.

A study of the principles, organization, and administration of state government. Textbook, readings, and reports.

Courses for Graduates

s311 (s100). American Political Theory, 1800-1865.
Credit, 1 course. G. Two hours a week. Both terms. First term Mr. Jenkins. Second term Mr. Pierson. Hours to be arranged.

A seminar course in the political philosophy that has developed in the United States, with special attention to the theories associated with the formation of the Federal Constitution, its early interpretation, the nature of the Federal Union, and the slavery dispute. Lectures, readings, and reports.

s321 (110). Seminar in State and Local Government.
Credit, 1 course. G. Two hours a week. Second term. Mr. Woodhouse. Hours to be arranged.

Intensive studies of various functions, organs, and problems of public administration in the States and their subdivisions.

LATIN

Courses for Undergraduates

s11 (s3). Latin Poetry.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. Mr. Gwynn and Mr. Sanders. Hour: 8:00 daily.
This course comprises the reading of the *Phormio* of Terence and of selected *Odes* of Horace. Emphasis is put on content and literary form. It carries the same credit as Latin of the regular session. See note under s12.

s12 (s4). Post-Augustan Prose.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. Mr. Gwynn and Mr. Sanders. Hour: 8:00 daily.
The reading of selections from Tacitus and Pliny, with emphasis on the literary values of the works read and on the social and political conditions of the period.
Note. Either s11 or s12 will be given, depending upon registration.

s53 (s19). Caesar.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Gwynn. Hour: 11:00 daily.
The course will deal with the reading of Caesar's Gallic and Civil Wars, and with the politics and history of the period.

s54 (s20). Cicero.
Credit, ½ course. C. I, II. Five hours a week. Second term. Mr. Sanders. Hour: 11:00 daily.
A study of Cicero as statesman and advocate. Selected letters as well as a number of orations will be read. An aim of the course is to secure an understanding of Cicero which will provide a background for the teaching of the orations in the high school.

s71 (s11ab). The Teaching of Latin in the High School.
Credit, 1 course. (½ course each term.) C. I, II. Five hours a week. Both terms. Mr. Gwynn. Hour: 9:00 daily.
A course for teachers, based on the authors usually read in the high school. The topics to be discussed will include; assignments, grammar, vocabulary, translation, use of outside material in the interpretation of the next, methods of recitation; lectures, readings, reports, discussions.

Courses for Graduates and Advanced Undergraduates

s111 (s51). The Latin Epic.
Credit, ½ course. C. or G. Five hours a week. First term. Mr. Howe. Hour: 12:00 daily.

s115 (s25). The Eclogues and Georgics of Vergil.
Credit, ½ course. C. or G. Five hours a week. Second term. Mr. Lipscomb. Hour: 12:00 daily.

s116 (s26). Horace.
Credit, ½ course. C. or G. Five hours a week. Second term. Mr. Sanders. Hour: 9:00 daily.

s187 (s76). Materials and Methods of Teaching High School Latin.
Credit, 1 course. C. II, or G. Ten hours a week. Second term. Mr. Gwynn. Hours: 10:00 to 12:00 daily.

History and tendencies of instruction in Latin, detailed study of high school Latin texts and methods of using them, supplementary reference materials, and bibliographies. Discussions and reports. This course is the same as Education s187.

Courses for Graduates

s202 (s104). Latin Epigraphy.
Credit, ½ course. G. Five hours a week. First term. Mr. Harrer. Hour: 9:00 daily.

s208 (s108). Lucretius.
Credit, ½ course. G. Five hours a week. Second term. Mr. Lipscomb. Hour: 10:00 Tue., Thur., Sat.

s301 (s101). Seminar in Latin Elegy.
Credit, ½ course teach term. G. Five hours a week. First term. Mr. Howe. Hour: 10:00 Tues., Thur., Sat.

s302 (s102). Seminar in Tacitus.
Credit, ½ course. G. Five hours a week. First term. Mr. Harrer. Hour: 10:00 Mon., Wed., Fri.

s303 (s103). Seminar in Latin Comedy.
Credit, ½ course. G. Five hours a week. Second term. Mr. Lipscomb. Hour: 10:00 Mon., Wed., Fri.

s310 (s110). Thesis Course.
First term. Mr. Howe and Mr. Harrer.

LIBRARY SCIENCE

s3ab (s3ab). Children's Literature.
Credit, 1 course; or each part, ½ course. C. I, II. Each part five hours a week. First term. Miss Beust. Hours: s3a, 8:00; s3b, 9:00 daily.

In general the aim of the course is to acquaint the students with children's reading in order that they may understand the varying appeals that books make to children and thus learn to select books with consideration for the different age groups and differing backgrounds of children. The importance of literature made by children, children's literary tradition, classics, modern and traditional fairy tales, poetry, nursery rhymes, fables and beast tales, myths, epics and sagas, romances, ballads, subject matter books, illustrated books, books for story telling and the history of children's literature are indicated. Practice in the writing of book notes, oral reports, discussion and lectures.

s5a (s1a) and s5b. Administration of School Libraries.
Credit, 1 course; or each part, ½ course. C. I, II. Each part five hours a week. First term. Miss Foster. Hours: s5a, 11:00; s5b, 12:00 daily.

(a) Course s5a aims to provide the student with knowledge of and facility in the important methods and records of acquiring and caring for library materials; the organization of the school library; the purchase of supplies. (b) A continuation of course s5a dealing with the broader and more general aspects of school library administration, such as budgets and appropriations, school laws, personnel problems, acquisition of ephemeral material, planning of school libraries, etc.

s6a (s2a) and s6b. Function and Use of the School Library.
Credit, 1 course; or each part, ½ course. C. I, II. Each part five hours a week. First term. Miss Findley. Hours: s6a, 10:00; s6b, 11:00 daily.

The aims of s6a are (1) to present the function of the library in the modern school and community; (2) to acquaint the students with the uses of essential reference tools; (3) to instruct in the methods of introducing the school library to pupils. s6b is a continuation of s6a, giving additional time to the more important topics studied in the first half course. Lectures, problems and discussion.

s7a (s1b) and s7b. Cataloging and Classification.
Credit, 1 course; or each part, ½ course. C. I, II. Each part five hours a week. Second term. Miss Akers. Hours: s7a, 10:00; s7b, 11:00 daily.
(a) The principles of dictionary cataloging, of classification, and of assigning subject headings, including their adaptation to libraries of different sizes and types, will be given through lectures, class discussion, problems, and practice work. The use of Library of Congress printed cards and of catalogers' and classifiers' aids and such closely related subjects as shelf-listing and alphabeting will be included. The unit form of catalog card and the Dewey Decimal Classification scheme will be taught. (b) A continuation of s7a, amplifying the elementary principles and emphasizing special cataloging problems, i.e., corporate entry, cataloging of serials and government documents, study of subject headings, etc.

s8a (s2b) and s8b. Reference and Bibliography.
Credit, 1 course; or each part, ½ course. C. I, II. Each part five hours a week. Second term. Mrs. Vining. Hours: s8a, 8:00; s8b, 9:00 daily.
Course s8a aims to train students to use books easily and to observe them critically through a study of the standard works of reference such as general and special encyclopedias, dictionaries, indexes to periodicals and general reference books on special subjects as well as government documents for their value as reference books. Problems involving the use of all the material available in the library on the subject in question are assigned. The preparation of an extensive bibliography is required. Lectures, problems, and assigned readings. s8b is a continuation of s8a and deals with the more important reference works on special subjects.

MATHEMATICS

Courses for Undergraduates

s1 (s1). (Alg.) College Algebra.
Credit, 1 course. C. I, II, III, IV. Five hours a week. Through both terms. First term, Mr. Hobbs. Second term, Mr. Lasley. Hour: 8:00 daily.
Graphical methods, Quadratics, Complex Numbers, Introduction to Theory of Equations, Elementary Mathematics of Finance, Determinants. Mathematics s1 and s2 together are equivalent to Mathematics 1 and 2 in the General Catalogue.

s2 (s2). (Trig.) Plane Trigonometry.
Credit, 1 course. C. I, II, III, IV. Five hours a week. Through both terms. First term, Mr. Linker. Second term, Mr. Mackie. Hour: 9:00 daily.
A general course dealing with trigonometic functions, unit circle, radian measure, identities, equations, angle sum and difference formulas, with especial attention to the solution of triangles, right and oblique.

s13 (s3). Analytic Geometry.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. First term, Mr. Winsor. Second term, Mr. Mackie. Hour: 11:00 daily.

The algebraic or analytic method of geometry. Special stress is put upon the locus of an equation and the equation of a locus. The conic sections are studied as well as various other curves, especially the exponential and periodic types.

s24 (s4). Differential Calculus.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. First term, Mr. Winsor. Second term, Mr. Parker. Hour: 9:00 daily.
The derivaties of functions and their application to geometry and mechanics.

s25 (s5). Integral Calculus.
Credit, 1 course. C. I, II. Five hours a week. Through both terms. First term, Mr. Linker. Second term, Mr. Parker. Hour: 12:00 daily.
This course centers around the idea of definite integral, considering in detail problems arising in geometry and the physical sciences, including length of curves, areas, volumes, moment of inertia, etc.

Courses for Graduates and Advanced Undergraduates

s103 (s64) (Geom.) Introduction to Modern Geometry.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Winsor. Hour: 12:00 daily.
This is a teacher's course for graduate credit, especially devised for teachers who are candidates for the M.A. degree. The course deals with the properties of the triangle and circle from the modern point of view, poles and polars, harmonic division, transformation by reciprocal radii, Brocard points and circles, etc.

s105 (s80). History of Mathematics.
Credit, ½ course. C. I, II, or G. Five hours a week. First term, Mr. Browne. Hour: 8:00 daily.
The historical development of the topics of arithmetic, algebra, geometry, trigonometry, and analytical geometry. Biographical sketches of great mathematicians and their contributions to mathematics.

s106 (s81). Teaching of Mathematics.
Credit, ½ course. C. I, II, or G. Five hours a week. Second term, Mr. Munch. Hour: 8:00 daily.
The purpose, value, and content of courses in high school mathematics; applications of mathematics; junior high school mathematics. Recent changes in the methods of studying mathematics. A careful study will be made of the recommendations of The National Committee on Mathematical Requirements.

s131 (s50). Theory of Equations.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. First term, Mr. Linker. Second term, Mr. Parker. Hour: 11:00 daily.
Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degree, transformations, determinations, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and the basic principles of the formation, handling, and evolution of equations.

s150 (s52). Synthetic Projective Geometry.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. First term, Mr. Browne. Second term, Mr. Lasley. Hour: 9:00 daily.

The fundamental notions of projective geometry; projection, section, perspectivity, etc. Both analytic and geometric methods are employed. Projective correspondence, involution, and general projective relations between one dimensional forms are studied.

Courses for Graduates

s206 (s101). Theory of a Complex Variable.
Credit, 1 course. G. Five hours a week. Through both terms. First term, Mr. Hobbs. Second term, Mr. Mackie. Hour: 10:00 daily.
Complex numbers, differentiation and integration, conformal mapping, linear fractional transformations, single and multiple value functions.

s211 (s61). Vector Analysis.
Credit, ½ course. G. Five hours a week. First term, Mr. Hobbs. Hour: 11:00 daily.
A study of some of the general principles of mechanics in the language of vectors.

s261 (s105). Differential Geometry.
Credit, 1 course. G. Five hours a week. Through both terms. First term, Mr. Browne. Second term, Mr. Lasley. Hour: 11:00 daily.
A study of the metric differential geometry of curves, surfaces, and curves on surfaces, systems of curves defined by differential equations, surfaces given by two quadratic differential forms.

MUSIC

Note. All registrations in Music, whether for credit courses or for private instruction, must be made through the head of the department, Mr. Dyer, at the registration desk or in the Music building; and if desired for credit in the College of Liberal Arts, must be approved by Dean Hobbs.

s3 (s7a). Sight Singing and Ear Training, Elementary.
Credit, ½ course. C. I, II. Five hours a week, both terms. First term, 11:00. Second term, 9:00 daily. Mr. Wilsbach.
A beginners course in the process of reading music at sight and in recognizing and reproducing music at first hearings. The So-fa syllables are used and the material is such as would be read in the first three grades. This course should be taken simultaneously with the course in Public School Music Methods, Primary Grades, but is also open to students not taking this course.

s5 (s7b). Sight Singing and Ear Training, Advanced.
Credit, ½ course. C. I, II. Five hours a week, both terms. First term, 9:00. Second term, 12:00 daily. Mr. Wilsbach.
A continuation of the course in Sight Singing and Ear Training, Elementary, open to any student who can do the work outlined therein. The material for this course is such as would be read in grades four to seven. This course should be taken simultaneously with course in Public School Methods, Grammar Grades, but is also open to students not taking this course.

s21 (s20). Harmony, Elementary.
Credit, ½ course. Five hours a week. First term. 8:00 daily. Mr. Wilsbach.
Prerequisite, a fair degree of facility in reading music notation of the approximate difficulty of the ordinary hymn tune. This course includes

a study of intervals, major and minor diatonic scales, harmonic progressions, cadences, sequences, etc., using the common chord in the root position.

s22 (s20). Harmony, Elementary.
Credit, ½ course. C. Five hours a week. Second term. 8:00 daily. Mr. Dyer. (See description for s21.)

s26 (s11). History of Music, Romantic and Modern Periods.
Credit, ½ course. C. Five hours a week. First term, 8:00 daily. Mr. McCorkle.
A survey of music history starting approximately with the year 1600 and covering the classic and romantic schools. The course is illustrated throughout. Students may enter this course who have had no previous musical training.

s51 (s3a). Appreciation of Music.
Credit, ½ course. C. I, II. Five hours a week, both terms. First term, 10:00, Mr. McCorkle. Second term, 9:00, Mr. Dyer.
A course in the appreciation of music to be conducted as a survey of material in the romantic programme schools. This will serve as a course subsequent to Music 3, which has been scheduled as a summer course heretofore, and will give additional credit to those people who have had the former course. It will likewise be open to people who have not had Music 51.

s57 (s40). Music Education (Primary Grades Methods).
Credit, ½ course. C. Five hours a week. Both terms. First term, 10:00, Mrs. Woodman. Second term, 8:00, Mr. Wilsbach.
Materials and methods for grades one to three inclusive; rote songs, singing games, etc.; preparation for and beginning of the sight-reading process. Students in this course should register also for Elementary Sight Singing and Ear Training if they have not already passed this course or its equivalent.

s60 (s43). Music Education (Grammar Grades Methods).
Credit, ½ course. C. Five hours a week. Both terms. First term. 8:00, Mrs. Woodman. Second term, 10:00, Mr. Wilsbach.
Materials and methods for grades four to seven inclusive. Sight-reading problems, part singing, etc. Prerequisites, Music Education s57, or Elementary Sight Singing and Ear Training, or their equivalents. Students in this course should register also for Intermediate Sight Singing and Ear Training if they have not already passed this course or its equivalent.

s63 (s49). Music Education (Methods of Appreciation).
Credit, ½ course. C. I, II. Five hours a week. First term only, 9:00 daily. Mrs. Woodman.
A methods course in the teaching of music appreciation in the public schools. Students registering for this course should have had teaching experience and training in music equal to that required of grade school teachers.

s66 (s60). Dalcroze Eurythmics.
Credit, ½ course. C. II. Five hours a week. First term only, 12:00 daily. Required of all music students with no previous credit in the work. Fee $7.50. Miss Gjerulff. (A second section organized upon demand.)
A fundamental course in the study of rhythm and in the expression of the various elements of music through bodily movement. Several sections

will be organized at different hours, for both children and adults, allowing the individual to be assigned to a suitable group. Fee for the term, $7.50; fee for the special section for class piano students, $3.00; a limited amount of private instruction will be available to students desiring not fewer than 15, and preferably 25 periods, the fee to be $1.00 per period.

s67 (s53). Methods of Teaching Class Violin.
Credit, ½ course. C. II. Five hours a week, and outside preparation. First term only, 2:00. Fee, $25.00. Mr. McCorkle.

A methods course in the class teaching of violin. The course will include observation in violin class work at periods to be arranged. Students in this course are expected to register also for the course in Dalcroze Eurythmics, unless excused by the head of the department.

s68 (s51). Methods of Teaching Class Piano (Nash System).
Credit, 1 course. C. II. Ten hours a week, first term. 2:00 to 4:00 daily. Fee, $25.00. Miss Nash.

For those interested in the teaching of beginners, a special program of correlated work in rhythm, plays, games, visual art and tone study will be offered in conjunction with the piano, offered in course s50. In addition, an entirely new and worthwhile offering is made for those interested in organizing adult classes for those who are beginners in piano course s51. This work will greatly enlarge the scope of those already engaged in teaching class piano, and the University recommends without hesitation that this new course be taken by all those who have engaged in this study in previous summers. The course will correlate definitely with the study of harmony, in order that the musicianship of the student be strengthened. Credit in both courses will be offered, one-half credit to each course. Students in this course are expected to register also for the course in Dalcroze Eurythmics, unless excused by the head of the department.

s71 (s23). Instrumentation.
Credit, ½ course. C. Five hours a week. First term. 12:00 daily. Mr. McCorkle.

A practical course in orchestral and band instrumentation, including a study of the various band and orchestra instruments and their technique, and a study of the principles which govern the arrangement of music for these instruments. This course is particularly valuable to students who work with or in orchestras and bands, and to supervisors of music.

s77 (s46). Music Education (High School Methods).
Credit, ½ course. C. I, II. Five hours a week. Both terms. 11:00 daily. Mr. Dyer.

Organization and planning of courses in music for high schools; conducting, grading, voice testing, etc., glee clubs; vocal and instrumental classes.

s83. Choral Conducting.
Credit, ½ course. C. II. Five hours a week. First term. 9:00 daily. Mr. Dyer. (Will be given during second term upon demand.)

Special Courses

sA. Lessons in Organ.
Both terms. First term, Mr. Kennedy. Second term, Mr. Wilsbach. Fee, $20.00 for the term, (two lessons a week). Hours by arrangement with teacher. Practice and lessons on Reuter four manual concert organ in Music Hall. See note below.*

*Practice on new Reuter four manual concert organ in Music Hall is available to students. Practice fee: $12.00 for term of six weeks, one hour a day, or $20.00 for term of six weeks, two hours a day.

s8. Lessons in Piano.
Both terms. First term, Mr. Kennedy. Second term, Mr. Wilsbach. Fee, $20.00 for the term, (two lessons a week.) Hours by arrangement with teacher. See note below.**

s8C. Lessons in Violin.
First term only, Mr. McCorkle. Fee, $20.00 for term, (two lessons a week). Hours by arrangement with teacher. See note below.***

s8D. Lessons in Singing.
Both terms, Mr. Dyer. Fee, $26.00 for term. (Two lessons a week.) Hours by arrangement with teacher. See note below.**

s8E. Lessons in Brass and Woodwind Instruments.
First term only, Mr. McCorkle. Fee, $14.00 for term. (Two lessons a week.) Hours by arrangement with teacher. See note below.***

Special Notice

Brass, woodwind, and stringed instrument groups will be organized during the first term for special non-credit training in ensemble. No fee. Instruments should be brought to the session by those owning them. A limited number of instruments available on rental plan. Band and orchestra, or both, will be formed if the demand is sufficient.

A Chorus, open to students of ALL departments, will rehearse at 5:00 on Mondays and Wednesdays in Music Hall. Choral literature suitable for all school situations will be examined and sung. No fee.

PHYSICS

Courses for Undergraduates

s21-22 (s1-2). General Physics. Part I. Prerequisite, Mathematics 1-2.
Credit, 1 course. Five lectures, three discussions and six laboratory hours a week. First term. Mr. Fussler and Mr. Shearin. Hours: Lectures 9:00 daily; discussions W., F., 10:00, S., 9:00. Laboratory, M. W. F., 2:00 to 4:00. Laboratory fee, $4.00.

s21-22 (s1-2). General Physics. Part II. Prerequisite, Mathematics 1-2 and Physics 21-22, Part I.
Credit, 1 course. Five lectures, three discussions and six laboratory hours a week. Second term. Mr. Plyler and Mr. ————. Hours: Lectures, 9:00 daily; discussions, W. F., 10:00, S., 9:00. Laboratory, M. W. F., 2:00 to 4:00. Laboratory fee, $4.00.

s14. (s14). Astronomy.
Credit, 1 course. Ten lectures a week. First term. Mr. Fussler. Hours: Lectures, 10:00 and 12:00 daily. Open to freshmen and sophomores as an elective.

Courses for Graduates and Advanced Undergraduates

s101 (s6). Mechanics and Wave Motion. Prerequisite, Physics 21-22, Mathematics 1-2-3.
Credit, 1 course. Hours: 11:00 and 12:00 daily.

**Practice rooms with piano available for fee of $2.00 for term of six weeks. Keys issued on deposit of 50 cents, which is refunded at close of term when key is returned.

***Practice rooms without piano, suitable for instrumental practice available at fee of $1.00 for term of six weeks.

s103 (s7). Modern Electrical Theory. Prerequisite, Physics 21-22, Chemistry 1.
Credit, 1 course. Hours: 11:00 and 12:00 daily.

s105 (s9). Optics. Prerequisite, Physics 21-22, Mathematics 1-2-3.
Credit, 1 course. Eight lectures per week, 11:00 and 12:00. Laboratory, four hours per week. Hours: to be arranged. Laboratory fee, $3.00.

Note: Physics, s101, s103, or s105 will be given in the first term by Mr. Stuhlman.

s102 (s5). Heat and Thermodynamics. Prerequisite, Physics 21-22, Mathematics 1-2-3.
Credit, 1 course. Eight hours lectures, 10:00 to 12:00, M. T. W. Th. Laboratory, four hours per week. Laboratory fee, $3.00.

s103 (s7). Modern Electrical Theory. As outlined above.

s104 (s8). Advanced Electricity and Magnetism. Prerequisite, Physics 21-22, Mathematics 4.
Credit, 1 course. Eight hours lectures, 10:00 to 12:00, M. T. W. Th. Laboratory, four hours per week. Hours to be arranged. Laboratory fee, $3.00.

Note: Physics s102, s103, or s104 will be given in the second term by Mr. Plyler.

Courses Primarily for Graduates

s301 (s114). Research. Intended for applicants for advanced degrees. First term. Mr. Stuhlman. Second term. Mr. Plyler.

s203. (s115). Atomic Structure. Prerequisite, Physics 101-103-104-105, Mathematics 4.
Credit, ½ course. Lectures daily, 8:00. First term. Mr. Stuhlman.

PSYCHOLOGY

Courses for Undergraduates

s21 (s1). General Psychology: First half.
Credit, 1 course. C. I, II, III, IV, V. Eight lectures and eight laboratory hours a week. First term. Mr. Crane and Mr. DeWick. Laboratory fee, $4.00. Lecture hours: 9:00 and 10:00 daily. Laboratory hours to be arranged.
The aim of the course is to present the essential phenomena of the general field of psychology, and the various theoretical and experimental methods of its approach. Lectures and experiments. This is equivalent to the first half of Psychology 21-22 scheduled in the University catalogue. This course, with course s22, or equivalent, is prerequisite to all other courses in Psychology.

s22 (s2). General Psychology: Second half.
Credit, 1 course. C. I, II, III, IV, V. Eight lectures and eight laboratory hours a week. Second term. Mr. DeWick. Laboratory fee, $4.00. Lecture hours: 9:00 and 10:00. Laboratory hours to be arranged.
Continuation and completion of course Psychology s22. Equivalent to second half of Psychology 21-22 scheduled in University catalogue. This course, with s1, is prerequisite to all other courses in psychology.

Course Primarily for Graduates

s104a (s104a). Advanced General Psychology: First half.
Credit, ½ course. G. Four lectures and four laboratory hours a week. First term. Mr. Crane. Laboratory fee, $2.00. Lecture hour: 11:00. Laboratory hours to be arranged.
An intensive study is made of the general field of phychology, by the use of selected readings from many sources and of typical experiments. This course is designed especially for those mature students whose foundation in psychology needs review and strengthening before electing special courses in the subject.

ROMANCE LANGUAGES
FRENCH

Courses for Undergraduates

s1 (s1). Elementary Course.
Credit, 1 course. E. Ten hours a week. First term. Mr. Staab. Hours: 8:00 and 12:00 daily.
Essentials of French Grammar. Special drill in pronunciation. It is aimed to make this course as practical as possible, with much oral work.

s2 (s2). Elementary Course.
Credit, 1 course. E. Ten hours a week. Second term. Mr. Smith. Hours: 8:00 and 12:00 daily.
Continuation of French s1.

s51 (s7). French Conversation and Composition.
Credit, 1 course. C. I, II, III. Five hours a week. Through both terms. First term. Mr. Staab. Second term. Mr. Smith. Hour: 11:00 daily.
The object of this course is to provide students with an opportunity to acquire practice in spoken French. Discussions in French on subjects of general interest. Composition and outside reading.

s55 (s10). Review of Grammar and Syntax.
Credit, ½ course. C. II. Five hours a week. First term. Mr. Giduz. Hour: 12:00 daily.
This course is primarily for teachers, and juniors and seniors who are intending to teach French. There will be an intensive review study of the elements and fundamentals of French grammar and syntax. This course may be taken only by consent of the instructor.

Courses for Graduates and Advanced Undergraduates

s131 (s17). The French Drama Prior to 1700.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Holmes. Hour: 11:00 daily.
Survey of the religious and comic theatres of the Middle Ages; the theatre of the Renaissance and its relation to the classic theatres of Greece and Rome; the neo-classic theatre of the Seventeenth Century.

s145 (s14). French Phonetics.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Lyons. Hour: 10:00 daily.
A detailed study of the French vowel and consonant sounds by the phonetic method.

s172 (s12). French Literature of the Seventeenth Century.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. Mr. Lyons. Hour: 8:00 daily.
This course deals with the literature of the reign of Louis, XIV.

Courses Primarily for Graduates

s221 (s121). Old French.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Holmes. Hour: 12:00 daily.
Reading of the oldest texts: La Chanson de Roland; Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology.

s226 (s106). French Literature of the Renaissance.
Credit, 1 course. G. Five hours a week. Through both terms. Mr. Lyons. Hour: 9:00 daily.
A study of French literature of the Sixteenth Century. Italian and French Humanism. The reformation. Marot, Rabelais, Calvin, the Pléiade, Montaigne.

s395 (s141). Research.
Credit, 1 course. G. Through both terms. Messrs. Holmes and Lyons. (Research in a special field under the direction of a member of the department.)

SPANISH

Courses for Undergraduates

s1 (s1). Elementary Course
Credit, 1 course. E. Ten hours a week. First term. Mr. Hayes. Hours: 8:00 and 12:00 daily.
Essentials of Spanish grammar. Special drill in pronunciation. It is aimed to make this course as practical as possible.

s2 (s2). Elementary Course.
Credit, 1 course. E. Ten hours a week. Second term. Mr. Hayes. Hours: 8:00 and 12:00 daily.
Continuation of Spanish s1.

Courses for Graduates and Advanced Undergraduates

s111 (s21). Modern Spanish Novelists.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. First term, Mr. Adams. Second term, Mr. Stoudemire. Hour: 9:00 daily.
A study of the "Generation of '98," with consideration of present day tendencies.

s132 (s12). Calderon and His Contemporaries.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. First term, Mr. Adams. Second term, Mr. Stoudemire. Hour: 12:00 daily.
Reading of representative plays of Calderón de la Barca, Moreto, Rojas, etc. Lectures and reports.

s135 (s18). Modern Spanish Drama.
Credit, 1 course. C. I, II, or G. Five hours a week. Through both terms. First term, Mr. Adams. Second term, Mr. Stoudemire. Hour: 11:00 daily.

Reading of plays of Dicenta, Benavente, Linares Rivas, the Alvarez Quintero brothers, Marquina, Martínez Sierra, etc. Lectures, oral and written reports.

Courses Primarily for Graduates

s395 (s141). Research.
Credit, 1 course. G. Through both terms. First term, Mr. Adams. Second term, Mr. Stoudemire. (Research in a special field under the direction of a member of the department.)

RURAL SOCIAL ECONOMICS

Courses for Undergraduates

s92 (s10). Rural Sociology.
Credit, ½ course. C. I, II. Five hours a week. Second term. Mr. Hobbs. Hour: 9:00 daily.
Intensive studies of (1) the solitary farmstead and the country community, (2) farm tenancy, (3) country illiteracy, (4) rural health, (5) the country school, (6) rural citizenship, (7) the country church, (8) rural recreation.

s95 (s12). Rural Economics.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Hobbs. Hour: 9:00 daily.
An analysis of the agricultural situation in the nation and the state and a study of some of the major problems involved. These problems include (1) the utilization of land resources, (2) the balancing of land, labor and capital as factors in agricultural production, (3) agricultural credit, (4) farm labor and farm tenancy, (5) marketing agricultural products, (6) agricultural surpluses, (7) the tariff, (8) taxation, (9) the farmer's standard of living, (10) cash crops versus diversification.

Course for Graduates and Advanced Undergraduates

s101 (s20). North Carolina: Economic and Social.
Credit, ½ course. C. I, II, or G. Five hours a week. Either term. Mr. Hobbs. Hour: 11:00 daily.
This course is designed to familiarize the student with his home state: Resources, social-economic areas, population, agriculture, industry, ruralism and urbanization, social and economic problems, etc.

Courses for Graduates

s208 (s108). Rural Social Problems.
Credit, 1 course. G. Ten hours a week. First term. Mr. Branson. Hours: Class discussions 9:00 daily; laboratory hours arranged to suit students' schedule.
Class discussions, readings and term reports on Country Life Institutions, (1) the country home, (2) the country school, (3) the country church and Sunday school, (4) our little country towns, (5) the country doctor and the rural health problem, (6) county government in rural counties.

s301 (s113). Rural Economics.
Credit, 1 course. G. Research Course. Ten hours a week. Through both terms. Mr. Hobbs. Hours arranged to suit students' schedule.
Research seminars, and field investigations in (1) land economics—resources, values, ownership and tenancy, laws and policies; (2) farm organization and management—farm systems, farm finance, distribution

of farm products and the farm income, coöperative farm enterprise; (3) country wealth, country institutions and problems; (4) state and county studies, economic, social, and civic; county bulletins, etc.

s311 (s117). Rural Sociology.
Credit, 1 course. G. Research Course. Ten hours a week. Through both terms. Mr. Branson and Mr. Hobbs. Hours arranged to suit students' schedule.

1. Research, seminars, and field investigations of (1) rural social institutions and agencies, (2) transportation and communication facilities in rural areas, (3) country-mindedness and its sequences, (4) town and country inter-dependences, (5) social disability in country areas, our public welfare laws and agencies, (6) social aspects of tendency and illiteracy, (7) state and county studies, economic, social, and civic; county bulletins, etc. 2. Rural Social Surveys; research, technic, and field work. 3. Statistics; interpretation and use. 4. Rural Social Engineering: (1) county community studies; (2) community organization, economic and social; (3) county government; (4) country leadership, requisites and technic

SOCIOLOGY

Courses for Undergraduates

s41a (s1a). Introduction to Sociology.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Brooks. Hour: 8:00 daily. Emphasis on social origins as found in primitive society, the rise of contemporary society, the forces shaping society studied through geographical, biological, psychological, and cultural approaches; social organization and control; the element of social theory.

s41b (s1b). Introduction to Sociology.
Credit, ½ course. C. I, II. Five hours a week. Second term. Mr. Brooks. Hour: 8:00 daily. Continuation—no new registrations. (Description same as above.)

s42a (s10a). Social Problems.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Vance. Hour: 9:00 daily. A general course giving primary emphasis to positive features and secondary consideration to the pathological aspects of society. The student is introduced to various social problems and institutions such as race, immigration, the family, and the community, which can be pursued more intensively in other specialized courses in this department.

s42a (s10a). Social Problems.
Credit, ½ course. C. I, II. Five hours a week. Second term. Mr. Vance. Hour: 11:00 daily. (Description same as above.)

s42b (s10b). Social Problems.
Vance. Hour: 9:00 daily. Continuation—no new registration. (Description same as for s42a.)

s64 (s14). Family Case Work.
Credit, ½ course. C. I, II. Five hours a week. First term. Mr. Lawrence.

Discussion of the relation of the individual to the family and the family to the community. The technique of case work and its scientific approach—methods of investigation, interviewing, social evidence, sources, diagnosis, treatment. Class work is supplemented by visits to social

agencies in neighboring cities and by field work under the supervision of members of the staff of the School of Public Welfare.

Courses for Graduates and Advanced Undergraduates

s152a (s2a). Social Theory.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Bernard. Hour: 12:00 daily.
A survey of the range of contemporary social theory with preliminary consideration of its historical backgrounds. A study is made of contributions to theories of human ecology, regionalism, population, social differentiation, the social personality mobility, human nature and culture, collective behavior, religion, art and the mores, the social processes, conflict, and social control. Leading theories are summarized, compared, and criticized.

s152b (s2b). Social Theory.
Credit, ½ course. C. I, II, or G. Five hours a week. Second term. Mr. Bernard. Hour: 12:00 daily. Continuation—no new registrations. (Description same as above.)

s161a (s11a). The Family.
Credit, ½ course. C. I, II, or G. Five hours a week. Both terms. Mr. Brooks. Hour: 10:00 daily.
The history, purpose, and problems of the family with especial attention to social conditions influencing family life and to efforts for family conservation.

s185a (s5a). The Negro.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Johnson. Hour: 8:00 daily.
A study of the American Negro, with particular reference to the South, the historical and cultural background of the Negro in Africa and in America; development since emancipation; bi-racial system; and problems of race relations.

s198a (s28a). Juvenile Delinquency.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Sanders. Hour: 9:00 daily.
This course deals with the diagnosis and treatment of juvenile delinquency from the social worker's viewpoint. Under diagnosis will be taken up the methodology of the social scientists in this field, and the evaluation of the different causative factors of juvenile delinquency. Under treatment will be covered the work of the juvenile court, probation, parole, and institutional care.

s199a (s29a). Public Care of Children.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Sanders. Hour: 11:00 daily.
This course is intended primarily for students who expect to follow social work as a profession. The major part of the course will be devoted to the study of methods and technique of the social agencies engaged in the social treatment of the different classes of children who stand in need of public care and protection, such as the delinquent child, the dependent or neglected child, the defective child, and children in employment. The latter part of the course will be devoted to a discussion of public responsibility for the welfare of children in general, especially from the standpoint of education, health, and maintenance.

s251a (s45a). Social Anthropology.
Credit, ½ course. C. I, II, or G. Five hours a week. First term. Mr. Johnson. Hour: 10:00 daily.
The origin, content, and distribution of culture; the modern cultural environment; Southern regional culture traits.

Courses Primarily for Graduates

s152a (s121a). Advanced Principles of Sociology.
Credit, ½ course. G. Five hours a week. First term. Mr. Bernard. Hour: 12:00 daily.
A survey of the range of contemporary social theory with preliminary consideration of its historical backgrounds. A study is made of contributions to theories of human ecology, regionalism, population, social differentiation, the social personality, mobility, human nature and culture, collective behavior, religion, art and the mores, the social processes, conflict, and social control. Leading theories are summarized, compared, and criticized.

s152b (s121b). Advanced Principles of Sociology.
Credit, ½ course. G. Five hours a week. Second term. Mr. Bernard. Hour: 12:00 daily.
Continuation—no new registrations. (Description same as above.)

s210a (s210a). Folk Sociology.
Credit, ½ course. G. Five hours a week. Second term. Mr. Bernard. Hour: Afternoon.
A study of collective representations and processes attempting descriptive accuracy primarily through portraiture and analyses. The primary basis of the course will be concrete materials related to folk attitudes and cultures, ranging from primitive folklore and folk wisdom to regional culture patterns. The chief objective is an attempt to seek certain contributions to social theory as related to the building of culture.

s215a (s215a). Social Demography.
Credit, ½ course. G. Five hours a week. First term. Mr. Vance. Hour: 11:00 daily.
The course attempts to synthesize the emerging concepts of culture and the region by depicting the resulting cultural landscape. The contributions of cultural anthropology, social geography, regional sociology, and human ecology are studied in an effort both to evaluate the socially significant factors of the environment and to arrive at a classification of regions, culture areas, and social types. The American South is used as a type study for the survey of regions in transition.

s334a (s134a). European Sociology.
Credit, ½ course. G. Five hours a week. First term. Mr. Bernard. Hour: Afternoon.
The development of social thinking from the earliest to the present with particular emphasis upon recent trends and schools.

SPANISH

(See under Romance Languages)

ZOOLOGY

Courses for Undergraduates

s41a (s1a). Fundamentals of Animal Biology. (Required accompanying course Zoölogy s1 (b).)

Credit, ½ course. C. I, II, III, IV, V. Six hours a week. First term. Miss Deviney. Hours: Lectures, 8:00 daily. Laboratory, see s1b below.

Sophomore, Junior and Senior elective. Required accompanying course, Zoölogy 1 (b). Elements of Anatomy, Physiology, and classification of animals.

s41b (s1b). Practical Studies. (Required accompanying course Zoölogy s1 (a).)

Credit, ½ course. C. I, II, III, IV, V. Six hours a week, two lecture hours, eight laboratory hours. First term. Miss Deviney and assistant. Laboratory fee, $5.00. Hours: Laboratory, Section I, 9:00 to 11:00; M., T., W., Th., and F.; Section II, 2:00 to 4:00, M., T., W., Th., and F.

Sophomore, Junior and Senior elective. Required accompanying course, Zoölogy 1 (a).

Dissection of animals and study of tissues, to give foundation for an understanding of the organization and functions of vertebrate animals and especially of man.

PART III—DIVISION OF ELEMENTARY EDUCATION

This division of the Summer School takes the place of the Normal School Division of former years. The curriculum here outlined which leads to the degree of Bachelor of Arts in Education is designed to prepare teachers for the primary and grammar grades of our public schools. The courses that go to make up this curriculum might as well be listed in the appropriate departments of the University as shown in Section II. Many of them are so listed. These courses are for the present listed separately in order to give emphasis to this division of the School of Education and in order to show more clearly their relation to other curricula.

It is readily seen that most of the academic courses called for in the curriculum for elementary teachers are already set up in the several departments of the University. This is true particularly of some of the elective courses in Education, several of the courses in English, and of the academic courses from which majors and minors are to be chosen.

Outline of Curriculum for Elemenary Teachers

Education (9 courses).

Introduction to Education, (Education 5); Sophomore year	1 course
Materials and Methods, (Educ. 82-83-84); Junior year	3 courses
Psychology of Elementary School Subjects (Educ. 63); Senior year	1 course
Directed Teaching (Educ. 85-86); Senior year	2 courses
A minimum of two courses to be elected by student and approved by his adviser in junior and senior years: (A course in philosophy of education is suggested)	2 courses

English (6 courses).

A minimum of English 1, 3, 4, or 5)	3 courses
1 course in American literature	1 course
1 course in children's literature	1 course
1 course in reading and speech	1 course

Fine and Industrial Arts in Elementary Education (5 courses).

Courses to develop desirable attitudes, appreciation, and knowledge from which it is hoped will come the power of æsthetic expression.

Music	1 course
Drawing and Art	1 course
Physical and Health Education	1 course
Practical Arts	1 course
Dancing and Pageantry	1 course

Natural Sciences (3 courses).

An Orientation Course in General Science	2 courses
Geography and Nature Study for Elementary Schools	1 course

Social Sciences (4 courses).

American History	1 course
European History	1 course
Educational Sociology	1 course
Problems of Citizenship (including North Carolina History)	1 course

Academic Major (8 courses) and *Academic Minor* (4 courses).

An academic major and an academic minor shall be selected by the student at the beginning of the junior year in consultation with his adviser. The academic major may be taken in any academic department in which a student in the College of Arts is permitted to major. At least 8 courses shall be required for an academic major and at least four courses shall be required for an academic minor. The courses taken in the major and minor fields prior to the junior year may be counted toward meeting the requirements for the major and minor, provided that not more than 4 of such courses shall apply on the academic major.

Elective courses to complete a minimum of 36 courses required for the degree.

Suggested Sequence of Courses

FRESHMAN YEAR

First Quarter	*Second Quarter*	*Third Quarter*
English 1	European History	American History
Natural Science 1	Natural Science 2	Natural Science 3
Elective	Elective	Elective

SOPHOMORE YEAR

First Quarter	*Second Quarter*	*Third Quarter*
English 3	English 4 or 5	Education 5
Practical Arts	Practical Arts	Problems of Citizenship
Elective	Elective	English 59 or 60

JUNIOR YEAR

First Quarter	*Second Quarter*	*Third Quarter*
Materials and Methods (Reading and Study habits)	Materials and Methods (Content subjects)	Materials and Methods (Language and Arithmetic)
Music	Educational Sociology	Physical and Health Education
Elective	Drawing	Elective

SENIOR YEAR

First Quarter	*Second Quarter*	*Third Quarter*
Psychology of Elementary Education	Directed Teaching	Directed Teaching
Children's Literature	Reading and Speech	Elective
Elective	Elective	Elective

Elementary Education

NOTE: The letter "P" when used in connection with the number of a course means that the course is intended for teachers of the primary grades; the letter "G," that the course is intended for teachers of the grammar grades; and the letter "X," that the course is intended for teachers of either the primary or the grammar grades.

s51P (s82P). Reading and Study Habits for the Primary Grades. (See under Education, Part II.)

s52G (s82G). Reading and Study Habits for Grammar Grades. (See under Education, Part II.)

s53Xa (s83Xa). Materials and Methods of Teaching Social Science. (See under Education, Part II.)

s53Xb (s83Xb). Materials and Methods of Teaching Natural Science. (See under Education, Part II.)

s54Pa (s84Pa). Arithmetic, Primary Numbers and Projects. (See under Education, Part II.)

s54Pb (s84Pb). Language for Primary Grades. (See under Education, Part II.)

s55Ga (s84Ga). Arithmetic for Grammar Grades. (See under Education, Part II.)

s55Gb (s84Gb). Language and Composition for Grammar Grades. (See under Education, Part II.)

s63 (s46X). Classroom Management. (See under Education, Part II.)

s165 (s68X). Investigations in Reading. (See under Education, Part II.)

s171 (s63Xab). Psychology of Elementary Education. (See under Education, Part II.)

ENGLISH

s1Xa. Children's Literature. (Same as Library Science s3a.)
Credit, ½ course. C. II. Five hours a week. First term. Miss Beust. Hour: 8:00 daily.

s1Xb. Children's Literature. (Same as Library Science s3b.)
Credit, ½ course. C. II. Five hours a week. First term. Miss Beust. Hour: 9:00 daily.

s2X. Reading and Speech Technique.
Credit, 1 course. C. II. Ten hours a week. Each term. Hours: Section I, 8:00 to 10:00 daily; Section II, 11:00 to 1:00 daily. Miss Hufham.
This course deals with voice production, and the modulation required in English speech. Consideration, minor speech defects and voice hygiene, posture, breath control, quality of tone are carefully dealt with, and some practice in the various phases of oral expression is given each student with suggestions for improvement by members of the class and the instructor.

FINE ARTS IN ELEMENTARY EDUCATION

s1P. Drawing and Art for Primary Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss ————. Hours: 8:00 to 10:00 daily.
Preparation is given for the art work in the primary grades through teaching the development of play impulses and imagination; color sense, and discrimination; the graphic vocabulary; the sense of orderly arrangement; and introduction to the great realm of art.

s1G. Drawing and Art for Grammar Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss ————. Hours: 11:00 to 1:00 daily.

The fundamental objective of the course is the teaching of "Art for Life's Sake. Through this the child will realize that beauty exists in the common things of everyday life as well as the masterpieces of painting, sculpture, and architecture.

PHYSICAL AND HEALTH EDUCATION

s3P. Physical and Health Education for Primary Grades.
Credit, 1 course. C. II. Ten hours a week. Each term. Miss Angel. Hours: 11:00 to 1:00 daily.

The aim of this course is to show teachers how spontaneous play of children may naturally evolve into coöperative play and social life. A study of games will be made from the genetic standpoint. The course will include the theory of play, the playing of games and practice in the construction of games for primary children.

s3G. Physical and Health Education for Grammar Grades.
Credit, 1 course. C. II. Ten hours a week. Each term. Miss Angel. Hours: 8:00 to 10:00 daily.

This course includes a study of the theory of play; the playing of games and organization of playgrounds for the children of grammar grades. The state course of study will be the basis of practical work.

PRACTICAL AND INDUSTRIAL ARTS

s1P. Industrial Arts for the Primary Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss Little. Hours: 9:00 to 11:00 daily.

This course presents the growth and development of industry and inventions from primitive times to the present day. The use of handicraft is employed to show methods of production. Typical forms of industrial art work appropriate for the primary grades.

s1G. Industrial Arts for the Grammar Grades.
Credit, 1 course. C. II. Ten hours a week. First term. Miss Little. Hours: 11:00 to 1:00 daily.

This course aims to present the industrial studies as they are concerned with the everyday experiences of life. It presents means of teaching children how to become better choosers and better users of materials. The relation of industry and its products to society will be discussed. The use of handicraft is employed to show methods of production.

NATURAL SCIENCE

s1X. General Science.

Credit, 1 course. C. II. Ten hours a week. First term. Miss Nichols. Hours: 8:00 to 10:00 daily.

This course is designed to orient the student in the work of science. The principles of the natural sciences are developed in relationship to man and the progress of civilization. Applications of scientific principles in daily life are especially emphasized.

s2X. General Science.
Credit, 1 course. C. II. Ten hours a week. Second term. Mr. Slay. Hours: 8:00 to 10:00 daily.—Continuation of General Science s1X.

s3X. The Principles of Geography.
Credit, 1 course. C. II. Five hours a week. Through both terms. Miss Nichols. Second term, Mr. Slay. Hour: 11:00 daily.
The interrelationship of man and his geographic environment. The principles of geography affecting mankind, particularly the development of commerce and social life, are taught by means of classwork, laboratory exercises and library reading.

SOCIAL SCIENCE

s1X. Problems of Citizenship.
Credit, ½ course. C. II. Five hours a week. First term. Miss Jones. Hour: 10:00 daily.
The purpose of this course is to furnish the means of instruction and training in the development of those capacities and attitudes desirable in the trained and creative citizens. Emphasis will be upon the inter-relations of home, school, community, state and national government.

s2X. North Carolina History.
Credit, ½ course. C. II. Five hours a week. Each term. Mr. King. Hour: 8:00 daily.
Special attention will be given to the more important facts in the social, political, and economic development of North Carolina, and to a study of the present social and civic problems of the state.

s3Xab. American History.
Credit, ½ course. C. II. Five hours a week. Through both terms. Mr. King. Hour: 11:00 daily.
A general survey of the history of the United States; the social, political and economic conditions in Europe at the time of exploration and colonization; the revolutionary movement and independence; formation of the national government; western expansion; the growth of the democratic spirit; Civil War and reconstruction, the rise of the new South, national expansion, the World War, present-day conditions.

WRITING

n1 (Writ. 21X). Writing. Skill.
Credit, 1s. hr. N. First term. Miss Jones. Hour: 12:00 daily.
A justification for legible handwriting is found in its value in teaching all other subjects, as well as in its social value. This course then should be required of all students who cannot make a reasonable score on the Ayres or Thorndike Scales. The course is primarily for skill.

n2 (Writ. 21X). Writing. Technique.
Credit, 1s. hr. N. First term. Miss Jones. Hour: 11:00 daily.
The psychology of handwriting; teaching writing in the primary grades; blackboard writing, standard scales for judging handwriting. Additional skill may be acquired as the technique of this course is developed.

PART IV—SPECIAL FEATURES

For the 1931 session the Summer School has found it necessary to abandon its usual program of major attractions for which a season ticket has hitherto been sold.

This does not mean, however, that no entertainment and recreational features will be provided. There will be the usual program sponsored by the Y. M. C. A. and perhaps several single attractions that can be given out-of-doors, or in Gerrard Hall, or possibly in the Playmakers Theatre. These will be announced from time to time while the Summer School is in session, but no season ticket admitting to these single attractions will be sold in advance as hitherto.

Rabbi Moses Jacobson (August 10-14)

The second week in August, Rabbi Moses Jacobson of Asheville, N. C., will deliver, under the auspices of the Jewish Chautauqua Society of America, a series of five lectures.

Dr. Jacobson's subjects are:

1. History of Reform Judaism.
2. Principles or Tenets of Reform Judaism.
3. Reform Judaism and the Bible.
4. Reform Judaism and Immortality.
5. Reform Judaism and Zionism.

Conference on Elementary Education (July 16 and 17)

July 16 and 17, a two-day conference on Elementary Education in North Carolina will be held at Chapel Hill. This conference is sponsored jointly by the State Department of Education and the Summer School. It will be presided over by Honorable A. T. Allen, State Superintendent of Public Instruction.

Third Parent-Teacher Institute (August 17-22)

The fourth annual Parent-Teacher Institute will be held in Chapel Hill the week of August 17-22, inclusive. This institute will be led by prominent national leaders, members from the state board, faculty members of the University Summer School, and a representative of the Child Study Association of America. The course consists of classroom work, lectures, reading and entertainment.

Social Activities

The committee on Social Activities, H. F. Comer, Chairman, is in control of the evening socials in the gymnasium and of all dances given by student groups. It is the policy of the committee to foster the maximum amount of wholesome social life compatible with good scholarship work. In keeping with this policy, the essential regulation are kept down to the minimum number. There will be dancing

in the gymnasium regularly three or four evenings each week under the management of the social committee, Tuesday, Thursday, and Saturday evenings, and some time Fridays also. On Tuesday and Thursday the dance is only one hour's length, from 7:15 to 8:15. On Saturday evening, it is of two and one-half hours' length, from 9:00 to 11:30. Inasmuch as there is no appropriation or fee for defraying the expenses of social programs, the dances have to be self-supporting. Therefore a small door fee is charged of all men at each dance—twenty-five cents for the one-hour dances and fifty cents for the two-and-one-half-hour periods.

Permissions for all dances given by students anywhere and at any time must be obtained in advance from the chairman of the Social Activities Committee.

The highest standard of conduct has characterized our social functions in the past and the Summer School insists that this be the case at all times.

Social Evening

Each Saturday evening while the Summer School is in session two programs of entertainment will be provided—one at the Gymnasium under the direction and supervision of the Committee on Social Activities, and one in Gerrard Hall under the direction of the Y. W.-M. C. A.

The Y. W.-Y. M. C. A.

The Y. W.-M. C. A. is a combined organization of Y. W. C. A. and Y. M. C. A. It has a mixed Cabinet of men and women students, about thirty in number, with an employed staff of three Secretaries, two women and one man. This Association serves the entire Summer School, and in campus vernacular is called simply the "Y." It has headquarters in the Y. M. C. A. building which is located in the heart of the campus. The location of the building typifies the place the Association fills in the life of the community, for it is truly the center of campus activities.

The principal points of the "Y's" program for the summer are the following:

1. Operating the "Y" building, as a Campus Home—or club for all—having lobby; parlor, with piano, victrola, etc.; reading room carrying more than fifteen leading magazines and all daily papers of the State; free pressing room, furnishing electric iron; three committee rooms; telephone for local and long distance service; ice water, etc. In the building a host and hostess are always present to receive and serve students and their friends. Make the "Y" your home this summer.

2. A distinctive form of campus service is rendered through the "Y" office, in an Information and Lost and Found Bureau. A master

directory is kept here, of all students and faculty. All telegrams and long distance calls are handled through this office. Found articles are turned in here and prompt effort is made to locate the owner. Inquiries are also left at the office for lost articles. Any information desired, in fact, may be had here, for if we cannot answer your questions we know who can and will direct you to them.

3. Special attention is given the many visitors who come to the campus throughout the summer. You are invited to instruct your visiting friends to "Report at the 'Y' " and wait in the parlor while we send for you.

4. Religious program is given constant and thorough attention by the "Y" organization, during the summer. It coöperates with the five local churches in their efforts for students. It conducts a Vesper, or 12-minute prayer service every evening immediately following supper. The several rural churches near Chapel Hill are assisted regularly by a committee of as many students as are willing to serve in this way. If interested, you should ask for a place on the "Y" Cabinet.

5. The Social and Entertainment department is very active all the time. It provides music and general facilities for amusement. There is a special "Social Hour" every evening before study time. It conducts games and mass play one or two evenings every week. This department also conducts picnics, hikes, and various other parties from time to time.

6. A Self-Help Bureau is ever active, assisting any needy students in getting remunerative employment for defraying part of their college expenses.

7. In addition to the above points of program, the "Y" is a general campus and community welfare agency, rendering service wherever needed. The Association solicits the coöperation of every summer school student. Use it, and work through it!